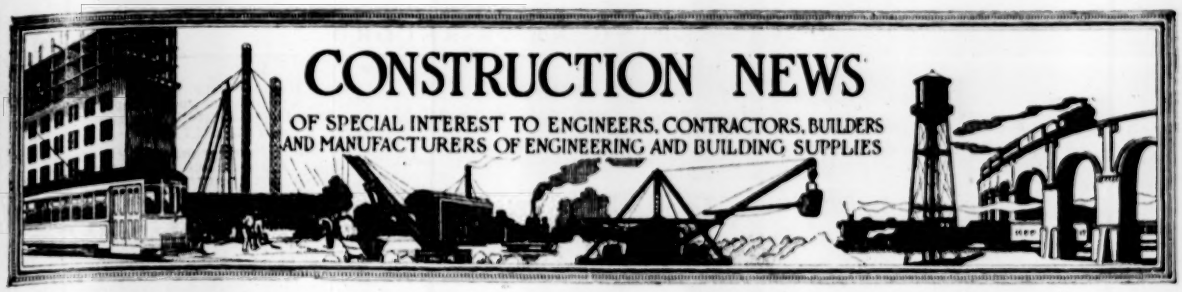
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
June 2	Newark, N. Y. Adv. May 15, 22 and 29.	May 15
June 3	Hartford, Conn.	May 29
June 4	Poughkeepsie, N. Y. Adv. May 22 and 29.	May 22
June 5	Bellevue, O.	May 22
June 6	Salem, Mass.	May 29
June 11	Baltimore, Md. Adv. May 22.	May 22
June 15	Duluth, Minn.	May 29

SEWERS

June 2	Hollidaysburg, Pa.	May 29
June 4	Garner, Ia.	May 15
June 4	Weston, W. Va.	May 22
June 4	Cuyahoga Falls, O.	May 22
June 4	Freehold, N. J.	May 22
June 4	Ann Harbor, Mich. Adv. May 29.	May 29
June 4	La Crosse, Wis.	May 29
June 5	Scotland, S. D.	May 29
June 5	Lansing, Mich.	May 29
June 6	Parkston, S. D.	May 29
June 9	Pontiac, Mich. Adv. May 22.	May 22
June 9	Stratford, Conn. Adv. May 15.	May 15
June 9	Osgood, Ont.	May 22
June 10	Saginaw, Mich. Adv. May 29.	May 29
June 12	Westerly, R. I. Adv. May 29.	May 29
June 14	Brookhaven, N. Y.	May 29

BRIDGES

June 2	Lyons, Kan.	May 29
June 3	Ada, Minn.	May 29
June 4	Charleston, W. Va.	May 15
June 4	Swainsboro, Ga.	May 15
June 4	Boonville, Mo.	May 29
June 5	Stratford, Conn.	May 8
June 5	Philadelphia, Pa. Adv. May 29.	May 29
June 6	Monroe, Ga.	May 8
June 6	Danville, W. Va.	May 22
June 6	Madison, W. Va.	May 22
June 9	Montgomery, Ala. Adv. May 8.	May 8
June 10	Peninsula, O.	May 29
June 10	Akron, O.	May 29
June 16	Manitowoc, Wis.	May 29
June 16	Valdosta, Ga. Adv. May 22 and 29.	May 22
June 19	Harrisburg, Pa. Adv. May 29.	May 29
June 23	Osceola, Mo.	May 29

STREETS AND ROADS

June 2	Osceola, Ark. Adv. May 22 and 29.	May 22
June 2	Saginaw, Mich.	May 29
June 2	Wilkes-Barre, Pa.	May 29
June 2	Aberdeen, Miss.	May 29
June 3	Massachusetts	May 29
June 3	Burlington, N. J.	May 22
June 3	Minot, N. D.	May 15
June 3	Griffin, Ga. Adv. May 22 and 29.	May 8
June 3	New York, N. Y. Adv. May 8.	May 8
June 3	Blair, Neb.	May 15
June 3	Indianapolis, Ind.	May 22
June 3	Butler, Pa. Adv. May 22 and 29.	May 22
June 3	Sanford, Fla.	May 22
June 3	Fremont, Neb.	May 22
June 3	Toledo, O.	May 29
June 3	Maryland	May 29
June 3	Buffalo, N. Y.	May 29
June 3	Jersey City, N. J.	May 29
June 3	Beytheville, Ark.	May 29
June 3	New York, N. Y.	May 29
June 3	Griffin, Ga.	May 29
June 3	Bellevue, Pa.	May 29
June 3	Auburn, N. Y. Adv. May 29.	May 29
June 3	Hayfield, Minn.	May 29
June 4	Indianapolis, Ind.	May 29
June 4	New Rockford, N. D.	May 15
June 4	Albion, Neb.	May 15
June 4	Bradford, O.	May 15
June 4	Burlington, N. J. Adv. May 22.	May 22
June 4	Ebensburg, Pa.	May 29
June 5	Ft. Edward, N. D.	May 29
June 5	South Dakota	May 29
June 5	New York, N. Y.	May 29
June 5	Santa Barbara, Cal.	May 29
June 5	Mt. Clemens, Mich.	May 29
June 5	Fayetteville, W. Va. Adv. June 5.	May 29
June 5	Metter, Ga.	May 15
June 5	Glenwood, Minn.	May 15
June 5	Seward, Neb.	May 22
June 5	Ponca, Neb.	May 22
June 5	Lyon, Neb.	May 22
June 5	Gastonia, N. C.	May 22
June 6	Rockford, Ill. Adv. May 29.	May 29
June 6	Red Wing, Minn.	May 22
June 6	Centersburg, O.	May 15
June 7	Vancouver, Wash.	May 29
June 7	Indianapolis, Ind.	May 29
June 9	Austin, Minn.	May 22
June 9	Hastings, Minn.	May 22
June 9	Bunnell, Fla.	May 29
June 9	Millersburg, Mo.	May 29
June 9	Daytona Beach, Fla.	May 29
June 10	Wilmington, Del.	May 29
June 10	Montivideo, Minn.	May 22
June 10	Marlington, W. Va.	May 22
June 10	Clarksville, Pa.	Apr. 3
June 10	Oregon	May 29
June 11	Morris, Minn.	May 22
June 11	Ann Arbor, Mich. Adv. May 29.	May 29
June 12	Brainerd, Minn.	May 22
June 12	Metter, Pa.	May 29
June 12	Pittsburgh, Pa.	May 22
June 12	Olean, N. Y. Adv. May 29.	May 29
June 13	Hinton, W. Va.	May 22
June 13	Bemedji, Minn.	May 22
June 14	Grand Rapids, Mich.	May 22
June 14	Indianapolis, Ind.	May 29
June 15	Beaver Crossing, Neb.	May 29
June 16	Elk River, Minn.	May 22
June 16	Fayetteville, Ark.	May 29
June 17	Henderson, N. C.	May 29
June 17	New York	May 29
June 17	Pennsylvania	May 29
June 17	Elbow Lake, Minn.	May 22
June 17	Luzerne, Minn.	May 22
June 17	Plymouth, Wis.	May 29
June 18	Moorehead, Minn.	May 22
June 18	New Mexico	May 29
June 19	Little Falls, Minn.	May 22
June 19	Junction City, Kan.	May 22
June 19	Brainerd, Minn.	May 29
June 20	Harrisonville, W. Va.	May 22
June 20	Indianapolis, Ind.	May 29
June 21	Indianapolis, Ind.	May 29
June 24	New Mexico	May 29
July 1	Marshall, Ark.	May 22

EXCAVATION AND DREDGING

June 3	Sanford, Fla. Adv. May 29.	May 29
June 3	Henderson, Minn.	May 15
June 3	New Castle, Pa. Adv. May 2.	May 22
June 5	Marks, Miss.	May 22
June 6	St. George, S. I., N. Y.	May 29
June 10	Wapello, Ia. Adv. May 22 and 29.	May 22
July 1	Edwardsville, Ill.	May 15

INDUSTRIAL WORKS

May 31	Hartford, Conn.	May 29
June 9	Sarasota, Fla.	May 22
June 15	Manitowoc, Wis.	May 29
June 15	Sheboygan, Wis.	May 29
June 16	New Orleans, La.	May 22
Aug. 1	Hastings, Minn.	May 15

BUILDINGS

June 2	Omaha, Neb.	May 29
June 4	New Brunswick, N. J.	May 22
June 4	Central Islip, N. Y.	May 15
June 5	Fergus Falls, Minn.	May 22
June 9	Wichita, Kan.	May 29
June 10	Bessemer, Ala.	May 15
June 10	Ashland, Ky.	May 29
June 11	Los Angeles, Cal.	May 29
June 12	Staunton, O.	May 22
June 12	Detroit, Mich.	May 22
June 14	Hubbard, O.	May 22
June 15	Anoka, Minn.	May 8
June 17	Ossining, N. Y. Adv. May 22 and 29.	May 22
June 17	Union Hill, N. J.	May 29
July 1	Austin, Minn.	May 22
July 2	Huntington, W. Va.	May 29
Aug. 1	Kenosha, Wis.	May 15

FEDERAL GOVERNMENT WORK

May 31	Boilers—Ft. Slocum, N. Y.	May 29
June 2	Buildings, Sewer, Water Mains, Etc.—Camp Travis, Tex. Adv. May 22 and 29.	May 22
June 4	Air Station—Spec. 3864—Galveston, Tex.	May 8
June 4	Bath House—Spec. 3786—Newport, R. I.	May 15
June 4	Repairing Pier Walls — Spec. 3815—Boston, Mass.	May 22
June 4	Revolving Platform—Spec. 3880—Hampton Roads, Va.	May 15
June 4	Storage Tanks—Spec. 3721 Cape May, N. J.	May 15
June 4	Fence — Spec. 3848 — Ft. Mifflin, Pa.	May 15
June 4	Roads — Spec. 3884 — Chatham, Mass.	May 15
June 4	Heating and Humidifying Apparatus—Spec. 3854—Philadelphia, Pa.	May 15
June 4	Oil Burning Equipment — Spec. 3847—Key West, Fla.	May 22
June 5	Post Office—Denton, Tex. Adv. May 15.	May 15
June 6	Post Office—Bellefourche, S. D. Adv. May 1.	May 1
June 9	Boilers—Denver, Colo.	May 29
June 9	Boiler—Monmouth, Ill.	May 29
June 9	Water Main and Sewer System — Washington, D. C. Adv. May 29.	May 29
June 11	Dredging — Spec. 3548 — Hingham, Mass.	May 22
June 11	Fire Protection System — Spec. 3808 — Hingham, Mass.	May 22
June 11	Power House—Spec. 3889—Montauk, N. Y.	May 22
June 11	Laundry — Spec. 3887 — Portsmouth, N. H.	May 22
June 11	T. N. T. Plant—Spec. 3866 —Ft. Mifflin, Pa.	May 29
June 11	Boiler and Superheaters — Spec. 3707 — Charleston, W. Va.	May 29
June 11	Earth Fill—Spec. 3897—Anacosta, D. C.	May 29
June 11	Electric Distributing System—Spec. 3901—Hampton Rds., Va.	May 29
June 12	Rip Rap—Baltimore, Md.	May 29
June 16	Dredging — New York, N. Y. Adv. May 22 and 29.	May 22
June 16	Boiler—Cairo, Ill.	May 29
June 16	Boiler—Cincinnati, O.	May 29
June 18	Jetty Repairs—Galveston, Tex.	May 29

Bids Close		See Eng. News-Record
June 18	Radio Building—Spec. 3902—Cayey, P. R.	May 29
June 18	Post Office—Clinton, S. C. Adv. May 29.	May 29
June 19	Levee Work—St. Louis, Mo. Adv. May 22 and 29.	May 22
June 20	Boilers—Memphis, Tenn. Adv. May 22 and 29.	May 22
June 23	Steel, Forgings, Castings, etc.—Wheeling, W. Va. Adv. May 29.	May 29
June 23	Dredging—New York, N. Y. Adv. May 29.	May 29
June 24	Dredging—Portland, Me. Adv. May 29.	May 29
June 25	Piles and Lumber—New Orleans, La.	May 29
June 25	Bulkhead — New Orleans, La.	May 29
June 27	Air Compressors—Florence, Ala.	May 29
June 27	Post Office — Houghton, Mich.	May 29
June 27	Coal—New Orleans, La.	May 29

MISCELLANEOUS

June 2	Wharf—Berthier, Que.	May 29
June 2	Retaining Wall—Wilkes-Barre, Pa.	May 29
June 2	Fireproofing—Trenton	May 29
June 2	Pipe, Etc.—Detroit, Mich.	May 29
June 3	Capstans and Hoists—Albany, N. Y.	May 15
June 3	Coal Handling Equipment—Toledo, O.	May 8
June 3	Paving Bricks — Saranac Lake, N. Y. Adv. May 8.	May 8
June 5	Ice Breakers, Richmond, Que.	May 22
June 5	Breakwater—Ft. William, Ont.	May 29
June 5	Road Material—Swarthmore, Pa. Adv. May 29.	May 29
June 5	Road Machinery — Two Rivers, Minn.	May 29
June 6	Flooring—Clearfield, Pa.	May 22
June 6	Paving Material—New York, N. Y.	May 29
June 9	Flusher and Sprinkler — Lewiston, Mont.	May 22
June 10	Road Roller — Saginaw, Mich. Adv. May 29.	May 29
June 10	Valves, etc.—Los Angeles, Cal.	May 29
June 12	Breakwater — Louis, P. E. I.	May 22
June 18	Pier, etc.—Chaumont, N. Y.	May 29

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

S. C., Eau Claire—Town plans election to vote on $40,000 bonds to build waterworks system to include pumping station, filter, etc. Engineer not selected.

Fla., Okeechobee—City election, June 20, to vote on $45,000 bonds to build waterworks.

Wis., Durand—See "Sewers."

Minn., Annandale—See "Sewers."

Minn., Harmony—City having plans prepared by Druar & Smith, engrs., 513 Globe Bldg., St. Paul, for improving waterworks and sewerage systems.

Minn., Walnut Grove—See "Sewers."

Mont., Roundup—City voted $15,000 bonds to build 500,000 gal. concrete reservoir. F. Quinnell, Roundup, engr. Noted **Mar. 27.**

N. M., Albuquerque—City receives bids in June, laying 12,000 ft. water mains. A. R. Hebenstreit, city mgr.

Cal., Calexico—See "Excavation and Dredging."

Cal., Los Angeles—Bd. Pub. Serv. plans election June 24 in Impvt. Dist. No. 9, San Fernando Valley to vote on $150,000 bonds to build system to distribute water from aqueduct for irrigation and domestic uses. W. Mulholland, 645 South Olive St., engr.

Cal., Oakland—East Bay Water Co., 9th St. and Bway., preparing plans for 20,000,000 gal. reservoir on upper 39th Ave., Fruitvale Dist. About $100,000.

BIDS DESIRED

Mass., Salem—Until June 6, by H. K. Barrows, city engr., 6 Beacon St., Boston, laying 1200 ft. 36-in. water main under North River. All diver work, 2-12 ft. deep. About $50,000.

Conn., Hartford—Until June 3, by Bd. Contr. and Supply, Municipal Bldg., building portion of Gully Brook Conduit, from point near Pliny St. to near Greenfield St., consisting of 306 ft. 8 ft. 8 in. x 8 ft. 6 in. and 910 ft. 8 x 8 ft. rein.-con. conduit. R. N. Clark, city engr.

Minn., Duluth—Until June 15, by F. G Phillips, comr. water and light dept., building 200,000 gal. rein.-con. cistern, at foot of Commonwealth Ave., involving 450 cu.yd. earth excav., 325 cu.yd. rein.-con. and 26 tons steel reinforcement.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Miss., Hollandale**—Comrs. Black Bayou D. D., Greenville, let contract building 1-story, pumping plant, sluiceways and foundations for machinery here, to Delta Cement Tile Co., Greenville, $24,600. Noted Apr. 17.

Sewers

PROPOSED WORK

N. Y., Rochester—See "Streets and Roads."

Pa., Pittsburgh—Cty soon lets contract building sewers in Harbor, Hillsdale, Hetzell, Asylum, Bader, Admiral Sts., Fall Way and private property from Miles Way to existing sewer on Firth St. T. M. Reed, City County Bldg., engr. Noted **May 8.**

W. Va., Ceredo—City having estimates made and preliminary plans prepared building 12,000 ft. sanitary sewers, in various streets. About $30,000. Eng. Serv. Co., Huntington, engrs.

W. Va., Warwood—City plans to issue $17,000 bonds to build sewers in various streets. W. F. Bartels, recdr.

Ky., Greenup—City having preliminary plans prepared and estimates made for building sanitary sewerage system on Main, Washington and Harrison Sts. About $20,000. Eng. Serv. Co., Charleston, W. Va., engrs.

O., Barberton—City soon receives bids building West Side Lateral Sewerage System. R. W. Pratt, Hippodrome Bldg., Cleveland, engr.

Wis., Durand—City having plans prepared by Druar & Smith, engrs., 513 Globe Bldg., St. Paul, for sewerage and waterworks systems.

Wis., Plymouth—City soon lets contract laying 1200 ft. 10-12 in. vitr. sewer in Main and Plymouth Sts. Cost between $15,000 and $16,000. J. Donohue, York Bldg., Sheboygan, engr.

Minn., Annandale—City having plans prepared by Druar & Smith, engrs., 513 Globe Bldg., St. Paul, for sewerage and waterworks systems.

Minn., Harmony—See "Waterworks."

Minn., St. Paul—Bd. Pub. Wks. having tentative plans prepared building sewers in St. Anthony Hill Project between Hamline, Summit and Western Aves. and Front St., cost, $1,000,000; Kittsondale System between Hamline and Dayton Aves., Mississippi River and Great Northern Ry., $600,000; Arundel-Kent System between Atwater, Dale and Maryland Sts. and Western Ave., $100,000. This is part of $5,000,000 expenditure contemplated by city. M. N. Goss, comr.

Minn., St. Paul—City soon receives bids building 70 x 120 ft. septic tank for sewage disposal at Field and Sheridan Aves., 17 ft. below grade, walls 3 ft. 6 in. thick at bottom, 16 in. thick at grade. C. A. Hausler, city engr.

Minn., Walnut Grove—Village having plans prepared by Druar & Smith, engrs., 513 Globe Bldg., St. Paul, for sewerage and waterworks systems.

Mont., Butte—Silver Bow Co. plans to build sewers in East Butte and McQueen additions, involving 5500 ft. 8-in. and 3000 ft. 12-in. pipe. About $18,000. M. J. Laughrin, co. engr.

Mont., Cut Bank—City Council soon lets contract building sewerage system, to include 2 sewage disposal plants, 5190 lin.ft. 12-20 in. pipe, 7300 cu.yd. earth and 3100 cu.yd. rock trenching, septic tank, etc. About $48,000. H. P. Walter, Minot Bldg., Great Falls, engr. Noted May 8.

Mo., Macon—City rejected bids received May 5, building sewage disposal plant. F. L. Wilcox, Syndicate Trust Bldg., St. Louis, engr. Noted Apr. 17.

N. M., Albuquerque—City receives bids in June, laying 6000 ft. storm sewer. A. R. Hebenstreit, city mgr.

Ore., Astoria—City soon lets contract building sewer and drainage system in Dist. No. 5, involving 120 lin.ft. 12-16-in. vitr. and 4798 lin.ft. 30-48-in. rein.-con. pipe, 9060 cu.yd. embankment, etc.; Dist. No. 9, 1845 lin.ft. 6-15-in. vitr. pipe, etc.; 2nd St., 400 lin.ft. 8-in. vitr. pipe, etc. G. T. McClean, city engr Noted May 1.

Ore., Portland—City received no bids building sewers in East 63rd and Halsey Sts. About $343,519. A. Laurgaard, city engr. Noted May 15.

Ont., Belleville—Town plans to build sewers. About $25,000.

BIDS DESIRED

R. I., Westerly—Until June 12, by Bd. Water Comrs., furnishing material and labor to complete about 8 mi. 6-24-in. pipe sewers with manholes complete; also building 1 main pumping station and 1 subpumping station. L. W. Arnold, chn.; advertised in this issue.

N. Y., Brookhaven—Until June 14, by Comrs. Port Jefferson Sewer Dist., building sewers, sedimentation tank and screen chamber; advertised in this issue.

Pa., Holidaysburg—Until June 2, by H. L. Stutz, chn. sewer com., trenching and laying 600 ft. 8 in. terra-cotta sewer pipe in Gerber St. About $10,000. J. L. Henry, Walsh Bldg., engr.

Pa., Penns Sta.—Until June 2, by boro., building sanitary sewerage system and pumping station. Work involves 10,000 lin. ft. 8-in. t.c. sewer, 1500 lin.ft. 10-in. sewer, pumping station and equipment. J. B. Smith, Harrison Ave., secy.

O., Cleveland—City receiving bids building sewer in Russell Rd. from Ware Park to Superior Ave., involving 1160 ft. 7 ft. 10 in. and 40 ft. 6 ft. 9 in. brick sewers, 30 ft. 12 in. vitr. pipe, etc. R. Hoffman, city engr.

Mich., Ann Arbor—Until June 4, by Bd. Pub. Wks., building storm sewers in Detroit St. from Kingsley St. to 5th Ave.; Catherine St. from Main St. to 5th Ave.; South University Ave from Linden St. to Oxford Rd., East University Ave. from South University to North University Aves.; Bway from Huron River southwesterly about 300 ft. Work involves 4700 lin.ft. 12 and 15-in. vitr. pipe, 1800 cu.yd. excav., 47 inlets and 18 manholes. I. G. Reynolds, city clk.; advertised in this issue.

Mich., Lansing—Until June 5, by J. A. Parsons, city clk., building sewer in Francis and Fernwood Aves. E. G. Eddy, city engr.

Mich., Saginaw—Until June 10, by R. F. Johnson, comr. of light, water and sewers, building rein.-con. or segment block sewer in Florence St. from point 100 ft. east of center line Queen St., to Salt St. and Salt St. from Florence to Holmes Sts.; advertised in this issue.

S. D., Parkston—Until June 6, by city building 6½ mi. 8-18 in. sewers. Dakota Eng. Co., Mitchell, engrs.

S. D., Scotland—Until June 5, by city, building 3 mi. 8-18 in. sewers. Dakota Eng. Co., Mitchell, engrs.

Cal., Santa Barbara—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., Brooklyn—E. Riegelmann, boro. pres., received lowest 3 bids May 21, furnishing all labor and material for building sewers in Ave. U, from C. W. MacDonald, 1910 Webster Ave., New York City, $195,801; J. C. Sheridan, $195,869; J. F. Cogan, 233 Bway., New York City, $249,600. Noted May 15.

★**N. Y., Brooklyn**—E. Riegelmann, boro. pres., let contract furnishing all labor and material for building sewers in Rutland Rd. from Remsen to Nostrand Aves., to Rosenthan Eng. Co., 228 Jackson St., $242,511. Incorrectly noted in our issue of May 22.

★**N. Y., Buffalo**—City let contract excavating and laying sewer in Ogden St., to drain 1000 acres outside of city and relieve flood conditions of East Buffalo, to Graham & Henderson, Cleveland, $347,917. Work involves 11,000 ft. 96 in. segmental block sewer, 78,500 cu.yd. earth and 6000 cu.yd. rock trenching.

Sewers (Continued)

★O., Barberton—City let contract building North End Lateral Sewerage System, to W. J. Irwin & Son, Greenville, $75,000. Noted May 8.

O., Cleveland—City received bids building sewer in (a) East 19th St. from Prospect to Central Aves., involving 630 ft. No. 2 and 3 C brick sewers and 340 ft .12 and 20 ft. vitr. pipe; (b) Euclid Ave. from London Rd. to Wayside Ave., 765 ft. No. 3 and 4 C brick sewers and 30 ft. 12 in. vitr. pipe, from Amata Constr. Co., 343 The Arcade, (a) $11,120; P. W. Graham, 1274 West 108th St., (a) $11,249, (b) $13,774; W. P. Gibbons, 340 Leader-News Bldg., (a) $12,783; Gould & Maybach, 823 East 156th St., (b) $11,959; N. Iafornaro, 3218 Murray Hill Rd., (b) $12,917.

★O., Cleveland—City let contract building sewer in Miles Ave. from East 133rd St. to city limits, to Manson Co., 345 The Arcade, cost $20,978; Bellaire Rd. from Jasper Ave. to Big Creek, to Brookside Constr. Co., 3905 West 20th St., $10,310; Superior Ave. from East 12th to 22nd Sts., to P. Ciraci, 11811 Browning Ave., $31,916. Noted May 15.

O., Cleveland—Dept. Pub. Serv. received lowest 3 bids building sewage treatment works, at westerly site, from Minnick-Gibbons Co., 5309 Prospect Ave., $640,926; Masters & Mullen Co., Electric Bldg., $678,-601; Great Lakes Dredge & Dock Co., Williamson Bldg., $798,456. Noted May 1.

Mich., Detroit—Dept. Pub. Wks. received bids laying 2458 ft. 20-in. vitr. crock sewer in Hart Ave., from Charlevoix to Mack Aves., from J. M. Affeld, 1208 Ford Bldg., $17,252; Detroit Contg. Co., Penobscot Bldg., $17,879; Lennane & McIlvenna, Union Trust Bldg., $24,459. Noted May 15.

★Neb., Geneva—City let contract building sewerage system, to S. A. Canaglia & Co., Omaha, $30,225. Noted May 15.

★Wash., Seattle—Bd. Pub. Wks. let contract building Firland Sanitorium Sewer, involving 10,710 lin.ft. clay pipe, to Coluccio & Niblett, Seattle, $29,372. Noted May 22.

Bridges

PROPOSED WORK

N. Y., Watertown—City defeated $60,000 bond issue to build new concrete bridge over Black River, on Pearl St., and $125,-000 bond issue for bridge over Black River on Diamond Island. E. W. Sayles, city engr. Noted Mar. 6.

S. C., Gaffney—Cherokee Co. plans to build 80-ft. rein.-con. arch bridge and approaches over Little Thickety Creek on Natl. Highway, 16 ft. wide. Federal Government asked to appropriate toward cost. N. C. Hughes, co. engr.

Ga., Canton—Comr. Rds. and Revenues of Cherokee Co., soon lets contract building rein.-con. bridge over Little River 2 mi. from Woodstock, to consist of 2 concrete abutments, 3 concrete piers, 5 concrete pile bents, two 44 ft. and seven 20 ft. spans of beam type floor system. Work involves 445 cu.yd. concrete and 67,745 lbs. steel; also building 2 culverts, each to consist of 2 abutments and involving 210 cu.yd. concrete and 4565 lbs. steel. Separate bids will be accepted on bridge and culverts. Johnson & Morgan, 500 Forsythe Bldg., Atlanta, project engrs.

Mich., Mt. Clemens—Comrs. Macomb Co. having plans prepared by C. V. Dewart, engr., c/o State Highway Dept., Lansing, for 230 ft. rein.-con. or steel bridge over Clinton River on Gratiot Ave., 60 ft. wide, 45 ft. roadway with walk on either side.

Wis., Menasha—Bd. Pub. Wks. will readvertise for bids for 430 lin.ft. rein.-con. bridge over Fox River. Former bids not opened. Parsons & Obert, Milwaukee, engrs. Noted Apr. 17.

Ia., Anamosa—Comrs. Jones Co. soon receive bids building 80 ft. pony truss bridge, 20 ft. wide, 4 ft. sidewalks, concrete flooring. About $12,000. J. F. Whalen, co. engr.

Ia., Grundy Center—Grundy Co. soon receives bids building concrete and pony truss bridges with concrete floors and abutments in various townships. Plans being prepared by Iowa Highway Comn., Ames. About $35,000. E. A. Cra[illegible] co. engr.

Ia., Leon—Decatur Co. receives bids in June building 28 box culverts and 200 ft. high steel truss bridge, 20 ft. wide, with concrete floor and abutments. About $45,-000. O. Sjolander, co. engr.

Ia., Sigourney—Bd. Supervs. Keokuk Co. receives bids in June building 26 box culverts and 80 ft. pony truss bridge, 20 ft. wide, concrete floor and abutments. About $25,000. R. Johnson, co. engr.

Ia., Wapello—Louisa Co. soon receives bids building 130 ft. high steel truss bridge with concrete floor and abutments, 18 ft. wide. Plans being prepared by Iowa Highway Comn., Ames. About $14,000. V. Thompson, co. engr.

Minn., Minneapolis—Comrs. Hennepin Co. receive bids in August building 840 ft., concrete and steel bridge over Minnesota River, 10 mi. from here. About $160,000. E. E. Tirrell, co. surv.

Kan., Hutchinson—City rejected bids received May 9, building 2 concrete bridges over Cow Creek. About $20,000. R. B. Lee, city engr.

Tex., Jasper—See "Streets and Roads."

Ore., Astoria—Port of Astoria Comn. having plans prepared by H. Nunn, state highway engr., Salem, for bridge over Young's Bay. About $240,000. Cost to be borne by Clatsop Co., State and Federal Government.

Ore., Portland—State Highway Comn., Portland, soon lets contract building 6 rein.-con. bridges over Columbia River Highway between Scappoose and Deer Island; one 50 ft. steel and concrete I beam bridge, on Pacific Highway between Jefferson and Albany, Linn Co.; one rein.-con. bridge on Columbia River Highway, near Globe, Columbia Co., also 850 lin.ft. timber trestle on Pacific Highway between Jefferson and Albany, Linn Co. H. Nunn, Salem, state highway engr.

Que., Yamachiche—J. Meunier, secy. municipal council, soon lets contract building rein.-con. bridge. About $15,000. Noted May 8.

Man., Winnipeg—City voted $150,000 bonds to replace Maryland Bridge over Assinboine River. A. Brereton, city engr.

BIDS DESIRED

Pa., Harrisburg—Until June 19, by State Highway Comn., building 43 rein.-con. bridges with 24 ft. roadways in Huntington, Clinton, Centre, Lebanon, Dauphin, Perry, Juniata, Snyder, Lancaster, Cumberland and Adams Counties. L. S. Sadler, state highway engr.; advertised in this issue.

Pa., Philadelphia—Until June 5, by G. E. Datesman, dir. Dept. Pub. Wks., building concrete arch. bridge, 86-ft. span., 78 ft. wide; also flat slab construction bridge incased in concrete with 32 ft. clear span, 82 ft. wide; advertised in this issue.

Fla., Bunnell—See "Streets and Roads."

O., Akron—Until June 10, by Comrs. Summit Co., building 48 ft. rein.-con., slab girder bridge over old Ohio Canal on Ash St., 42 ft. wide; also repairing bridge over Ohio Canal. C. Costigan, co. engr. Noted May 8.

Wis., Manitowoc—Until June 16, by Klug & Smith, engrs., 69 Wisconsin St., Milwaukee, building 396 ft. double leaf bascule steel bridge, with 100 ft. draw, concrete abutments, etc., 25 ft. wide on 9th St. About $60,000. Noted Feb. 6.

Minn., Ada—Until June 3, by D. E. Fulton, aud. Norman Co. building 3 concrete and steel bridges over Judicial Ditch No. 56, Norman and Clay Counties.

Minn., Brainerd — See "Streets and Roads."

Kan., Lyons—Until June 2, at office of E. H. Sledd, clk. Rice Co., for constructing Sterling Bridge, in Sterling Twp., on new Santa Fe Trail Rd. 2½ mi. from Sterling, consisting of eleven 43 ft. spans, 24 ft. roadway, height over all 21 ft., reinforced concrete girder or plain concrete abutments and rein.-con. piers.

Mo., Boonville—Until June 4, by Cooper Co., building 60 ft. steel bridge, 14 ft. wide, concrete abutments, in Clear Creek Twp. E. T. Hale, Boonville, engr.

Mo., Osceola—Until June 23, by St. Clair Co., building two 14 x 60 ft. and one 14 x 110 ft. steel span, concrete or wooden floors. Work consists of 3 sets of abutments, involving 500 cu.yd. concrete or stone. L. P. Gregg, co. engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Pa., Montgomery—Comrs. Lycoming Co., (Williamsport), let contract building rein.-con. bridge over Susquehanna River, here, to W. R. Cliffe, Abbott Bldg., Philadelphia. About $259,500.

★W. Va., Pineville—Comrs. Wyoming Co. let contract building 2 concrete arch bridges over Barkers' Run to Luten Bridge Co., Huntington, $12,416. Work involves 446 cu.yd. rein.-con., 119 cu.yd. concrete and 12 tons steel. Noted May 15.

★S. C., Lockhart—Chester Co. (Chester), and Union Co. (Union) let contract building 694 ft. bridge over Broad River, to Southern Bridge Co., Birmingham, Ala., $59,016. Work involves 885 cu.yd. concrete and 330 tons steel, etc.

★Wash., Spokane—Comrs. Spokane Co. let contract building 100 ft. concrete bridge over Latach Creek, 2½ mi. west of here, to C. A. McClung, 904 East Mission St., $12,850. Noted May 22.

★Ont., St. Thomas—Elgin Co. let contract building concrete and steel highway bridge, to I. W. Chivers, Belmont, cost $11,-800.

Structural Steel

PROPOSED WORK

Tex., Jasper—See "Streets and Roads."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. Y., Brooklyn — See "Industrial Works."

Reinforced Concrete

REINFORCED CONCRETE

PROPOSED WORK

N. Y., Brooklyn—See "Industrial Works."
Pa., Frankford—See "Miscellaneous."
S. C., Gaffney—See "Bridges."
Ore., Tillamook—See "Industrial Works."
Que., Yamachiche—See "Bridges."

BIDS DESIRED

Pa., Harrisburg—See "Bridges."
Pa., Phila.—See "Bridges."
Ala., Montgomery—See "Bridges."
Minn., Brainerd—See "Streets and Roads."
Minn., Duluth—See "Water Works."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. Y., Brooklyn — See "Industrial Works."
★S. C., Lochart—See "Bridges."

Streets and Roads

PROPOSED WORK

Massachusetts—State Highway Comn., Capitol, Boston, having plans prepared for 24,000 ft. Mohawk Trail Highway, bituminous macadam, 18-24 ft. wide, Greenfield and Shelburne Twps. About $175,000. A. W. Dean, state highway engr.

Mass., Chicopee—Bd. Pub. Wks. soon receives bids paving various streets with concrete. About $45,805.

Mass., Fall River—City soon receives bids paving with Hassam concrete 14th St., cost $6500; Brownell St., $8300; Stafford Rd., $8300; Plymouth Ave., $3900; Stetson St., $4000 and Columbia St., $11,100.

R. I., Bristol—Town appropriated $50,000 bonds to improve Wood and High Sts. J. H. Coggeshall, clk.

N. Y., Binghamton—Council adopted ordinances to build concrete curb and gutter on Fairview Ave.; pave Prospect Ave. from Chenango to Way Sts.; also pave roadways of bridges on Washington and Court Sts. About $12,500. W. E. Weller, city engr.

N. Y., Carthage—Village plans to pave Francis St.; also West St. from Canal to Thorpe Sts.; South Washington St. from State to West Sts.; South Clinton St. from State to West Sts.; South Mechanic St. from State to West Sts.; Canal St. from State to West Sts.; North Clinton St. from State to Budd Sts.; Alexandria St. from Adelaide to Boyd Sts.; Budd St. from North James to North Clinton Sts. and North Washington St. from State to Fulton Sts. Cost between $80,000 and $100,000. Address C. F. Adams, village pres.

Streets and Roads (continued)

N. Y., Geneva—Bd. Pub. Wks. soon receives bids paving West, High, Pine and Castle Sts. Cost between $20,000 and $25,000. J. W. Brenan, city engr.

N. Y., Rochester—City passed ordinance to grade walks and build sewers in Northland Ave., cost $20,300; Winton Rd., $70,000; Stanfield St., $4100; Iceland Park, $6600. C. A. Poole, city engr.

N. Y., Rochester—City plans to pave Sterling St., asphalt, cost $12,750; widen Wisconsin St., $2000. C. A. Poole, city engr.

N. Y., Syracuse—City plans to pave Granes St. from Beecher to Highland Sts.; Manlius St. from Butternut to James Sts.; East Fayette St. from Warren to Montgomery Sts.; West Genesee St. from Salina to West Sts.; South Ave., from West Onondaga to Cortland Aves.; Cortland Ave. from Salina St. to Midland Ave.; West Genesee St. from Liberty St. to Erie Canal; East Genesee St. from Salina to Warren Sts. About $500,000. New York State Rys. will appropriate toward cost.

Pa., Ebensburg—Supervs. East Carroll Twp., c/o Controller Cambria Co., rejected bids reconstructing 7 mi. and 152 ft. road in East Carroll Twp., from Patton to Carrolltown and from Bradley Junction to 1 mi. south of Carrolltown, 18 ft. wide. Work will be readvertised calling for 16 ft. roadway of brick on concrete and slag base. O. P. Thomas, Leader Bldg., Johnstown, engr. Noted May 1.

Pa., Palmerton—Town voted $100,000 bonds to pave and improve streets.

Del., Middletown—City soon receives bids repaving Broad, East and Main Sts., concrete base with bituminous binder. About $45,000.

W. Va., Charleston—Kanawha Co., Union Dist., plans election soon to vote on $150,000 bonds to build roads. P. J. Walsh, Charleston, engr.

W. Va., Elkins—Comrs. Randolph Co. soon receive bids building 2 mi. road between Roaring Creek Junction and Barbour Co. line, waterbound macadam. About $17,462. F. A. Parsons, engr.

W. Va., Fayetteville—Fayette Co., Quinnimont Dist., election June 17, to vote on $194,000 bonds to improve roads. J. K. McGrath, Fayetteville, engr.

W. Va., Fayetteville—Fayette Co. election June 10, to vote on $125,000 bonds to improve roads. J. K. McGrath, co. engr.

W. Va., Fayetteville—Fayette Co., Kanawha Dist., voted $379,000 bonds to improve roads. J. K. McGrath, Fayetteville, engr. Noted May 8.

W. Va., Hinton—Comrs. Summers Co. soon let contract grading, furnishing material and laying 9 ft. pavement on 3 mi. Hinton-Powleys Creek Rd., grading 20 ft. wide. About $30,000. J. D. French, engr.

W. Va., Hinton—Summers Co., Pipestem Dist., election June 7, to vote on $22,700 bonds to improve roads. Z. V. Burke, Hinton, engr.

W. Va., New Cumberland—Comrs. Hancock Co. plan to build 2 mi. New Cumberland-Weirton Rd., grading 22 ft. wide, surfacing 9 ft. wide, involving 12,000 cu.yd. excav., 9400 sq.yd. brick surfacing, 10,500 sq.yd. concrete curb and gutter. About $55,000. C. E. Grafton, New Cumberland, engr. Noted Mar. 6.

W. Va., Princeton—Comrs. Mercer Co. receive bids about July 1, building 6 mi. Raleigh-Grayson-Turnpike, 16 ft. wide, waterbound macadam. G. Barton, Co., engr.

W. Va., Sutton—Comrs. Braxton Co. having plans prepared building 1 mi. Elk River Rd., 26 ft. wide, involving 13,000 cu.yd. excav., cost $13,000; 3 mi. Sutton-Nicholas Rd., 26 ft. wide, 12,000 cu.yd. excav., $13,000. R. M. Cavendish, Sutton, engr.

W. Va., Warwood—City plans to issue $119,000 bonds to improve roads. W. F. Bartels, recdr.

W. Va., Winfield—Comrs. Putnam Co. plan to build 4 mi. Culloden-St. Albans Rd., grading 24 ft. wide, surfacing 16 ft. wide, involving 40,000 cu.yd. excav., 37,000 sq.yd. surfacing. About $140,000. G. H Davis, 4 Dyer Apartments, Charleston, engr

N. C., Lenoir—Caldwell Co. voted $250,000 bonds to build roads. J. L. Cottrell, clk.

S. C., Bishopville—Lee Co. plans to relocate, grade and surface 28.5 mi. road from Camden to Kingstree, 30 ft. wide, cost $57,000; 19.5 mi road from Sumter to Darlington, 30 ft. wide, $40,000. Federal Government asked to appropriate toward cost. J. R. Pennell, Commercial Bank Bldg., Columbus, engr.

S. C., Saluda—Saluda Co. plans to relocate, grade, drain and surface 15 mi. road from Batesburg to Saluda, 30 ft. wide. About $40,000. Federal Government asked to approriate toward cost. J. R. Pennell, Commercial Bank Bldg., Columbus, engr.

Fla., Okeechobee—City election June 20 to vote on $80,000 bonds to pave streets.

Miss., Brandon—Highway Comn. Pelahatchie Precinct Separate Rd. Dist., Rankin Co., rejected bids improving 6 mi. Federal Aid Rd. No. 5, between Jackson and Meriden. Work will soon be re-advertised. Noted May 8.

La., Winnsboro—Franklin Parish voted $750,000 bonds to build and improve 117 mi. roads.

Ky., Greenup—City having preliminary plans prepared and estimates made for 14,000 yd. brick or bitulithic pavement on Main, Washington and Harrison Sts. About $50,000. Eng. Serv. Co., Charleston, W. Va., engrs.

O., Wellsville—City plans to grade, pave, curb and build sewers in .76 mi. Chester Ave. from 15th to 22nd Sts. Work involves 12,700 sq.yd. vitr. brick pavement, 7384 lin. ft. combination curb and gutter, 450 lin.ft. concrete abutting, 158 lin.ft. straight and 410 lin.ft. circular curb, 9391 cu.yd. earth excav. and 420 ft. 15 and 30 in. sewers. About $56,912.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with sheet asphalt on 6-in. concrete foundation, Amherst or Medina curbstone, Epworth Blvd. from Tireman to Daley Aves., 46 ft. wide, less double track, about $66,310; Epworth Blvd. from Warren to Tireman Aves., 46 ft. wide, less double track, $56,430; Richter Ave., from McClellan to Pennsylvania Aves., 26 ft. wide, $10,320; Clairpointe Ave. from Essex Ave. to point 520 ft. south of Jefferson Ave., $39,250; with one course concrete; alley between Baldwin, Seyburn, Sylvester and Canfield Aves., 16-18 ft. wide, $7660; alley parallel to Chene St. between Ferry and Palmer Aves., 18 ft. wide, $2190; alley between Rivard, Russell, Watson and Erskine Sts., 20 ft. wide, $2500; alley between 15th, 16th, Stanley and Antoinette Aves., 20 ft. wide, $3040; alley between 2nd, 3rd, Burlingame and Webb Aves., 18 ft. wide, $4430; alley between Lawton, Linwood, Columbus and Montgomery Aves., 18 ft. wide, $4630.

Mich., Ford (Wyandotte P. O.)—Village having plans prepared by M. L. Brown & Son, engrs., 823 Chamber of Commerce, Detroit, grading, shaping, draining and paving with 1 course concrete and curbing with cement, 3000 ft. Goddard Rd., 30 ft. wide, and 1400 ft. Hudson St., 24 ft. wide.

Mich., Hamtramck—Village plans to pave with asphaltic concrete or concrete 2300 ft. Yemens Ave. from Joseph Campau to Conant Aves.; 1300 ft. Mitchell Ave. from Holbrook to Evaline Aves.; 1100 ft. Norwalk Ave. from Gallagher to Conant Aves.; 900 ft. Evaline Ave. from Lumpkin to Dequindre Ave.; 1000 ft. Oliver Ave. from Conant Ave. to easterly village limits, 24 ft. wide; also paving and widening 1900 ft. Joseph Campau Ave. from city limits to Grand Trunk Ry.

Mich., Kalamazoo—City plans to pave with brick, concrete base, Oakland Dr., cost, $159,498; Douglas Ave., $51,460; Porter St., $20,712; Ransom St., $10,778; Pitcher St., $6500; Church St., $7456; with asphaltic concrete, Grand Ave., $8653; Prairie Ave., $14,236. A. Lenderink, city engr.

Mich., Kalamazoo — Comrs. Kalamazoo Co. soon let contract grading, shaping, building drainage structures and paving with waterbound macadam 14 mi. road in Assessment Dists. Nos. 2, 3, 4 and 7, 18 ft. wide.

Wis., De Pere—City council voted $15,000 bonds to improve streets.

Wis., Sheboygan—City having plans prepared grading, curbing, guttering and paving with concrete, 14 blocks North 6th St. from Pennsylvania to Michigan Aves., 20 ft. wide, cost between $15,000 and $20,000, grading, curbing, guttering and repaving with vitr. brick, 18 blocks North Water St., Erie and Center Aves., 20 ft. wide, $25,000. C. U. Boley, city engr.

Wis., Sheboygan—City plans to grade and pave with 2 course rein.-conc. and build sidewalks with combined curb and gutter on 3.5 mi. East Water St., also 10th St. from Jule to Superior Ave., 18 ft. wide. Work involves 5920 sq.yd. concrete, 1925 lin.ft. concrete curbing, and 1925 lin.ft. concrete gutter. About $18,000. C. U. Boley, city engr.

Minn., Appleton—H. W. Steele, village aud., receives bids about June 1, paving 25 blocks, 30 or 50 ft. wide, involving 40,000 sq.yd. J. W. Shaffer & Co., 405 New York Life Bldg., Minneapolis, engrs.

Minn., Blooming Prairie—T. J. Cashman, village aud., receives bids about June 1, paving 7 blocks, 60 ft. wide, involving 15,000 sq.yd. J. W. Shaffer & Co., 405 New York Life Bldg., Minneapolis, engrs.

Minn., Luverne—Comrs. Rock Co. plan to pave and gravel 7 mi. road. About $175,000. D. E. Davidson, Luverne, engr.

Minn., Slayton—B. Tietema, village aud., receives bids about June 1, paving 5 or 6 blocks, 80 ft. wide, involving 20,000 sq.yd. J. W. Shaffer & Co., 405 New York Life Bldg., Minneapolis, engrs.

Minn., Spring Valley—E. H. Adams, village aud., receives bids about June 1, paving 7 blocks, 50 ft. wide, involving 20,000 sq.yd. J. W. Shaffer & Co., 405 New York Life Bldg., Minneapolis, engrs.

Minn., Windom—Comrs. Cottonwood Co. rejected bids graveling 17.5 mi. Federal Aid Project No. 43, State Rd. No. 12. Noted May 1.

Kan., Maryville—City retained C. McCrea, engr., 314 Republic Bldg., Kansas City, Mo., to prepare plans for 25,000 sq.yd. vertical fibre brick paving. C. Pusch, mayor.

Kan., Topeka—City receives bids about June 10, paving 8 blocks of concrete alleys, 7 blocks 3- and 4-in. vertical fiber brick streets, and 20 blocks asphaltic concrete streets. W. E. Baldry, city engr.

Neb., Madison—City soon receives bids paving 3400 ft. Madison, 2nd, 3rd and 5th Sts., Dist. No. 2, 24-50 ft. wide. About $55,000. W. D. J. Stickelberg, Madison, city engr.

South Dakota—State Highway Dept., Pierre, plans to grade, gravel and drain 23 mi. Whitewood-Spearfish-Beulah Rd., Lawrence Co., to include 11½ mi. earth road 36 ft. wide, and 11½ mi. gravel surfaced road, 20-24 ft. wide, involving 124,500 cu.yd. earth and 1250 cu.yd. rock excav., 16,100 cu.yd. gravel, 1060 cu.yd. concrete and 22 tons reinforcing steel, etc., cost $135,000. 18½ mi. Ft. Pierre-Phillip Rd., Stanley Co. to include 2½ mi. gravel surfaced road, 20 ft. wide, and 16 mi. earth road, 36 ft. wide, 121,300 cu.yd. earth excav., 3220 cu.yd. gravel, 840 cu.yd. concrete for drainage structures and 21 tons reinforcing steel, etc., $78,000.

N. D., Valley City—Comrs. Barnes Co. plan to issue $325,000 bonds to improve roads. C. N. Nelson, aud.

Montana—State Highway Comn., Helena, plans to pave 3680 ft. Bway., 32 ft. wide, cost $30,000; 4227 ft. Railroad Ave., S., 40 ft. wide, $45,000, both in Manhattan. Federal Government will be asked to appropriate toward cost. P. D. Pratt, state highway engr.

Mont., Billings—Yellowstone Co. plans to pave 1½ mi. North Poly Rd., cost $35,000; 2 mi. South Poly Rd., $53,000. Federal Government asked to appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Bozeman—City plans to pave Dickerson St., from Central to 3rd Aves.; 6th Ave. from Story to College Sts. C. C. Widener, city engr.

Mont., Cut Bank—Glacier Co. plans to grade 4 mi. Cut Bank-Sweet Grass Rd., cost $10,000; gravel surface 2 mi. Browning-Depot Rd., $4000. Federal Government asked to appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Helena—Lewis and Clark Counties plan to build Park to Park Highway. About $350,000. Federal Government will appropriate toward cost.

Mont., Jordan—Garfield Co. plans to grade 34 mi. Edwards-Mosby Rd. About $20,000. Federal Government asked to appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Streets and Roads (continued)

Mont., Thompson Falls—Sanders Co. plans to grade 17 mi. Thompson Falls-Idaho Rd. About $22,000. Federal Government asked to appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mo., Liberty—Clay Co. retained J. D. Davis, engr., Jefferson City, to prepare plans for 12 mi. Federal-aid roads. E. Archer, clk.

Mo., Platte City—Platte Co. retained Tuttle, Ayers & Woodard, engrs., Reliance Bldg., Kansas City, to make plans and supervise construction 8½ mi. Federal Aid road in Parkville Special Rd. District., 18 ft wide, brick or concrete. G. W. Day, 705 N. Y. Life Bldg., Kansas City, secy. About $350,000. Work will be started as soon as plans are approved by Government.

Mo., St. Joseph—City plans to pave 1173 ft. Beck Rd. from Ashland Ave. to city limits, 26 ft. wide, involving 2910 sq.yd. 2 in. asphaltic concrete on 6 in. concrete base and 2280 lin.ft. combination curb and gutter, estimated cost $11,500; 2970 ft. Seneca St. from 28th to 33rd Sts., 24 and 28 ft. wide, 7720 sq.yd. 2 in. asphaltic concrete on 6 in. concrete base, 3800 sq.ft. concrete sidewalk and 6000 lin.ft. combination curb and gutter, $31,000; 6500 ft. 21st St. from Duncan St. to Garfield Ave., 30 ft. wide, 18,700 sq.yd. 2 in. asphaltic concrete on 6 in. concrete base, 12,100 lin.ft. combination curb and gutter and 59,400 sq. ft. concrete sidewalk, $83,000; 2900 ft. Commercial St. from 22nd St. to east city limits, 24 and 28 ft wide, 13,265 sq.yd. 6 in. concrete and 8700 lin.ft. integral curb, $43,-000; 4250 ft. 6th St. from Monterey to Atchison Sts., 36 ft. wide, 18,000 sq.yd. 3 in. wire cut brick block on 8 in. concrete base, 2100 lin.ft. plain curb and 1800 sq.ft. concrete sidewalk, $97,000; 830 ft. 4th St. from Felix to Sylvanie Sts., 36 and 44 ft. wide, 3360 sq.yd. 4 in. wire cut brick block on 8 in. concrete base, $17,800; 4520 ft. Frederick Ave. from 8th to 17th Sts., 40 ft wide, 10,500 sq.yd. 2 in. Trinidad asphalt, 1½ in. binder on 8 in. concrete base, 600 lin.ft. plain curb and 7200 sq.yd. repressed vitr. brick on 8 in. concrete base between Street Ry. Co.'s tracks, $98,000; 1260 ft. 17th St. from Beattie St. to S. L. Mt. Mora Cemetery, 24 ft. wide, 3620 sq.yd. 2 in. asphaltic concrete on 6 in. concrete base, 1520 lin.ft. plain curb and 6900 sq.ft. concrete sidewalk, $13,100. H. Judson, city engr.

Tex., Abilene—Taylor Co. plans to gravel surface and drain 8.403 mi. road extending from north of Buffalo Gap to ¼ mi. west of Tuscola. About $35,000. R. E. Schiller, c/o H. E. Elrod, Interurban Bldg., Dallas, engr.

Tex., Beaumont—Jefferson Co. plans to build 6.72 mi. concrete road or one with concrete base and 1- or 2-in. asphalt top, also all necessary rein.-con. drainage structures, on State Highways Nos. 3 and 7, known as Beaumont-Amelia Rd., located between Beaumont and Port Arthur and Beaumont and Houston, 16 ft. wide. About $208,000. D. R. Thornton, Beaumont, engr.

Tex., Boston—Bowie Co. voted $60,000 bonds to build roads from Oxford School through Red Water, Maud, and Minton Twps., to Pettis' Bridge, on Sulphur River.

Tex., Cleburne—Johnson Co. voted $2,-000,000 bonds to build roads.

Tex., Corsicana—Navarro Co. soon lets contract improving 11.661 mi. Highway No. 14 extending from Corsicana to Rice and beyond. Work involves 63,014 sq.yd. plain concrete and 43,080 sq.yd. rein.-con. pavement, 13 acres clearing and grubbing, 13,-846 cu.yd. earth and 128,774 cu.yd. borrow excav., 3516 cu.yd. concrete for bridges and culverts, 13,312 lin.ft. concrete piles and 404,285 lbs. steel. About $454,000. C. Chappell, Corsicana, engr.

Tex., Jasper—Jasper Co. plans to improve 16 mi. State Highway No. 7, 24 ft. wide. Work includes graveling 7 mi., clearing, grading and building drainage structures and steel bridge over Angelina River. Separate bids will be received for bridge. Cost $4000 per mile. G. R. Abney, Jasper, engr. Noted May 8.

Tex., Laredo—Webb Co. election June 14, to vote on $300,000 bonds to build roads.

Tex., Meridian—Bosque Co. plans to gravel surface, grade, pave and improve 51.5 mi. Meridian Highway, known as State Highway No. 2, 16-ft. wide. About $175,-000. C. H. Van Eman, Walnut Springs, engr.

Tex., Montague—Montague Co. plans to clear, grub, grade, gravel surface and build drainage structures on 9.84 mi. Meridian Rd., Rd. Dist. No. 3, 16 ft. wide. About $139,708. J. R. Hill, Bowie, engr.

Tex., Sherman—Grayson Co., Howe Dist., voted $150,000 bonds to build roads.

Tex., Wichita Falls—Wichita Co. election June 4, to vote on $1,500,000 bonds to build roads.

N. M., Albuquerque—City receives bids in June, for 100,000 yd. street paving, 12,000 sq.yd. alley paving, 50,000 ft. combined curb and gutter, and 35,000 yd. grading. A. R. Hebenstreit, city mgr.

Wash., Cashmere—City soon receives bids paving Division St. and Cottage Ave. Cost to exceed $10,000.

Wash., Pomeroy—City soon lets contract improving Main St. Work involves 9000 cu.yd. grading, 2200 cu.yd. crushed rock, 9000 cu.yd. asphalt and 3000 cu.yd. waterbound macadam. D. A. Taylor, city clk.

Wash., Vancouver—Comrs. Clark Co. having preliminary plans prepared improving 4.75 mi. Feleda-Hazel Dell Rd. About $100,000.

Oregon—State Highway Comn., Portland, soon lets contract grading Cabbage Hill-Kamela Rd., Umatilla Co., involving 100,000 cu.yd. excav.; paving 9 mi. North Yamhill-McMillville Rd., Yamhill Co., 20,000 cu.yd. excav.

Ore., Astoria—Council adopted resolution to grade Grande and Floral Aves., Jerome, 31st and Irving Sts. G. T. McClean, city engr.

Ore., Coquille—City plans to improve Hall and 1st Sts. About $19,000. A. S. Lawrence, city recdr.

Ore., Forest Grove—City plans to grade and hardsurface 5th Ave. W. P. Dyke, recdr.

Ore., Marshfield—Coos Co. election June 3, to vote on $362,000 bonds to build and improve roads.

Ore., Oregon City—City soon receives bids paving 14th St. to Main St.; Washington St. from bridge to 14th St.; also building macadamized road from Main St. to Abernathy Bridge, all to be 18 ft. wide.

Ore., Portland—Multnomah Co. election June 3 to vote on $1,250,000 bonds to build and improve roads.

Cal., Fresno—Comrs. Fresno Co. have agreed with U. S. Forest Serv. to build 6.5 mi. road in mountains northwest of Huntington Lake. About $23,000. D. M. Barnwell. co. clk.

Cal., National City—City plans election soon to vote on bonds to pave 7 mi. of streets.

Que., Montreal—City plans to pave St. Denis St. from Craig to St. Catharine Sts., with granite block, and from St. Catherine to Ontario Sts., with asphalt, ½ mi. long, 60 ft. wide. About $20,000.

Que., Napierville—Dept. Rds., Quebec, plans to build 16 mi. road from here to St. Hyacinthe and 23 mi. road from St. Hyacinthe to Drummondsville, waterbound macadam. About $156,000.

Que., Tremblay—Municipal Council plans to build 7 mi. gravel road. M. Henry, c/o Rd. Dept., Parliament Bldg., Quebec, engr.

Ont., Arnprior—Town plans to build road, including concrete walks and curbing. About $16,000. F. H. Grout, clk.

Ont., Chatham—Town soon receives bids for 4 mi. concrete pavements, curbs and gutters, involving 32,850 sq.yd. concrete. About $120,000. M. Adams, engr.

Ont., Cobalt—Dept. Highways, Parliament Bldg., Toronto, plans to build 60 mi. macadam road from here to Timmins. About $60,000. Provincial Government will appropriate half of cost. G. Hogarth, c/o Dept. Highways, ch. engr.

Ont., Elk Lake—Dept. Highways Parliament Bldg., Toronto, plans to build 26 mi. tar macadam road from here to Gowganda. About $250,000. G. Hogarth, c/o Dept. Highways, engr.

Ont., Hamilton—City plans to build 6000 ft. asphalt pavement, 25 ft. wide, involving 4800 sq.yd. asphalt on 6 in. concrete base. About $18,000. E. R. Gray, city engr.

Ont., Islington—F. Barber, engr., 40 Jarvis St., Toronto, soon lets contract paving 8500 sq.yd. road, with bituminous macadam, for town. About $30,000.

Ont., Oshawa—Town soon receives bids building 70,000 sq.ft. concrete sidewalk. About $20,000. W. G. Worden, engr.

Ont., Ottawa—Bd. Control soon lets contract building asphalt pavement on Booth St. from Queen to Somerset Sts., involving 7734 sq.yd. asphalt, 53 sq.yd. concrete, 2020 lin.ft. concrete curb, 2367 lin.ft. concrete gutter, 700 sq.ft. concrete sidewalk, etc., cost, $40,000; wood block pavement on Bank St. between Arlington and Roseberg Aves., 3050 sq.yd. wood block, 1350 sq.yd. asphalt, 650 lin.ft. concrete curb and gutter, 1000 sq.ft. concrete sidewalk, $75,000. A. F. McCallum, City Hall, engr.

Ont., Sarnia—City Council soon lets contract for 40,000 sq.yd. asphalt surfacing on Christina, George, Victoria, Daves and Cromwell Sts. About $81,000. Noted Apr. 24.

Ont., Timmins—Dept. Highways, Toronto, soon receives bids building waterbound macadam road from here to South Porcupine thence to Dome Mines. About $60,000. G. Hogarth, c/o Dept. Highways, Toronto, engr.

Ont., Woodstock—J. Morrison, city clk., soon lets contract building 16,500 sq.yd. concrete pavement. About $55,000. F. J. Ure & Son, engrs.

BIDS DESIRED

Massachusetts—Until June 3, by A. W. Dean, engr., 212 State House, Boston, building gravel bituminous road on River and South Sts., Southbridge Twp.; 9700 ft., Weymouth Twp. and 6500 ft. bituminous macadam road, Wareham Twp., all 18 ft. wide.

New York—Until June 17, by State Highway Comn., Albany, improving highways in following counties: Chenango Co., 3 highways, 4.78 mi., 5.57 mi. and 5.87 mi.; Erie Co., 5.78 mi.; Essex Co., 2 highways, 8.25 mi. and 1.09 mi.; Fulton Co., 3 highways; 2.8 mi., 4.9 mi. and 1.06 mi.; Onondaga Co., 2 highways, 7.45 mi. and 3.75 mi.; Rensselaer Co., 2 highways, 1.44 mi. and 4.95 mi.; completing highways in following counties, Broome Co., 4.7 mi.; Cattaraugus Co., 2.17 mi. and Nassau Co., 1.57 mi.; also repairing highways in following counties: Fulton, Herkimer, Monroe, Montgomery, Oneida and Westchester Counties. F. S. Green, comr.; advertised in this issue.

N. Y., Auburn—Until June 3, by city, paving Grove St. with asphalt, stone filled asphalt, vitr. brick or bitulithic and John St. with asphalt, stone filled asphalt, vitr. brick, bitulithic or concrete. C. A. Dayton, city clk.; advertised in this issue.

N. Y., Buffalo—Until June 3, by S. H. Norton, city engr., paving 748 ft. Argus St. from Essex to Rosel Sts., 26 ft. wide, involving 2186 sq.yd. asphalt, cost $12,000; 2730 ft. Cornwall St. from Delavan to Warwick Sts., 24 ft. wide, 7285 sq.yd. concrete, $40,000; 792 ft. Zenner St. north of Ferry St., 24 ft. wide, 2117 sq.yd. asphalt, $12,000; 1300 ft. Greeley St. from Hertel to Race Sts., 26 ft. wide, 3760 sq.yd. asphalt; 11,457 ft. Genesee Ave. from Jefferson to Bailey Sts., 30 and 42 ft. wide, 29,682 sq.yd. asphalt, $165,000; 1596 ft. Harriet St. from Delavan St. to end of street, 26 ft. wide, 4615 sq.yd. asphalt, $25,000; 1425 ft. Tifft St. from South Park Ave. to McKinley Parkway, 28 ft. wide, 4444 sq.yd. asphalt, $24,000; 2730 ft. Floss Ave. from Genesee to Delavan Sts., 24 ft. wide, 7285 sq.yd. asphalt, $40,000; 439 ft. Breckenridge St. from Niagara St. to Erie Canal lands, 26 ft. wide, 1272 sq.yd. asphalt, $7000; 951 ft. Thornton Ave. from Bailey to Comstock Aves., 26 ft. wide, 2752 sq.yd. concrete, $15,000; 198 ft. Casey St. from William St. to point 185 ft. south, 26 ft. wide, 577 sq.yd. concrete, $4000.

N. Y., Ft. Edward—Until June 5, by Bd. Trustees, paving McCrea St. from westerly end to West Bway. and Lower Bway. from aqueduct to point where Hudson Valley Ry. leaves same, brick. F. J. Betts, clk.; advertised in this issue.

N. Y., New York—Until June 3, by F. L. Dowling, pres. Manhattan Boro., regulating and repaving with granite block on concrete foundation, roadway of Moore St. from South to Water Sts.; West B'way. from Vesey to Franklin Sts.; William St. from Fulton to Beekman Sts.; Theatre Alley from Ann to Beekman Sts.; Centre St. from Duane to Leonard Sts.; Walker St. from Centre to Baxter Sts.; with sheet asphalt on concrete foundation, Madison Ave. from 116th to 125th Sts.

Streets and Roads (continued)

N. Y., New York—Until June 5, by Armory Bd., at office of J. F. Hylan, mayor, City Hall, removing curb, extending concrete sidewalks and laying concrete foundations for floor in drill hall of 8th Coast Artillery Corps Armory, Jerome Ave. and Kingsbridge Rd., Bronx Boro., Contr. No. 1.

N. Y., Olean—Until June 12, by Comrs. Pub. Wks., building brick pavement on concrete foundation and building sanitary and storm sewers and appurtenances in Fulton St. from East State St. to Pennsylvania R. R. switch; South Clinton St. from East State to East Green Sts.; East Henley St. from South Barry to Fulton Sts.; East Green St. from South Barry to South Clinton Sts. involving 7700 sq.yd. pavement; North 8th St. from Buffalo to Lincoln Sts.; North 9th St. from Buffalo to Wayne Sts.; North 6th St. from Washington to Sullivan Sts.; Buffalo St. from Washington to Reed Sts.; Winters Ave. from Washington to Sullivan Sts., 15,790 sq.yd. pavement; East 11th St. from Irving to Reed Sts.; North 12th St. from West State St. to viaduct; South 12th St. from West Henley to West State Sts., 15,970 sq.yd. pavement; 3640 sq.yd. 5th St. from Irving to Putnam Sts. S. M. Gaylord, comr. pub. wks.; advertised in this issue.

N. J., Jersey City—Until June 3, by city, improving Johnston Ave. from Grand St. to Cornelison Ave., belgian block on concrete base; also building 18 in. vitr. sewer from Cornelison Ave. to connect with Grand St. sewer. About $50,000. Noted May 15.

Pennsylvania—Until June 17, by State Highway Comn., Harrisburg, building roads in counties as follows:

Blair Co., 890 ft. rein.-con., Gaysport Boro., 23,075 ft. Logan Twp., 13,075 ft. to be repaired with bituminous surface course, 8 to 14 ft. wide.

Bradford Co., 6640 ft., concrete, Athens Twp.

Cambria Co., 32,185 ft. rein.-con. and Hillside vitr. brick, Jackson Twp.

Center Co., 27,940 ft. bituminous surface course or rein.-con. on concrete foundation, Boggs Twp.

Chester Co., 2932 ft. bituminous surface course or rein.-con. on concrete foundation, Oxford Boro.

Cumberland Co., 24,275 ft. rein.-con. and Hillside vitr. brick, Upper Allen Twp.

Crawford Co., 9067 ft. rein.-con., Woodcock and Hayfield Twps.

Erie Co., 4854 ft. bituminous surface course and vitr. brick on concrete foundation, Girard Boro.; 20,200 ft. rein.-con., Wayne Twp., 9154 ft. rein.-con. and Hillside vitr. brick, Union Twp.; 27,409 ft. bituminous surface course and Hillside vitr. brick on concrete foundation, or rein.-con. and Hillside vitr. brick, Mill Creek and Fairview Twp.

Lancaster Co., 37,684 ft. bituminous surface course or rein.-con. on concrete foundation, West Hempfield, East Hempfield and Manheim Twps.

Lycoming Co., 39,319 ft. rein.-con., Piatt and Woodward Twps.

Mercer Co., 3678 ft. bituminous surface course or rein.-con. on concrete foundation, Grove City Boro.

Potter Co., 26,400 ft. bituminous surface course or rein.-con. on concrete foundation, Eulalia and Roulette Twps.

Warren Co., 6544 ft. rein.-con. Youngsville Boro.

York Co., 40,712 ft. bituminous surface course on concrete foundation, and Hillside vitr. brick, or rein.-con. and Hillside vitr. brick, Carroll and Franklin Twps.

L. S. Sadler, state highway comr.; advertised in this issue.

Pa., Bellevue (Pittsburgh P. O.)—Until June 3, by Boro., grading, paving and curbing West St., Florence Ave., etc. Work involves 2190 sq.yd. vitr. brick, 1642 lin.ft. concrete curbing and 2775 cu.yd. earth excav. P. H. Martin, 331 4th Ave., Pittsburgh, engr.

Pa., Ebensburg—Until June 4, by C. Fletcher, secy. Hastings Boro., c/o Controller Cambria Co., for 1925 ft. shale or vitr. fire clay pavement on concrete base with cement or stone curbing, 22 ft. wide. C. E. Schlicher, Spangler, engr.

Pa., Wilkes-Barre—Until June 2, by city, grading and laying 25,800 sq.yd. sheet asphalt, 18,250 sq.yd. asphalt block and setting in place 31,586 lin.ft. concrete or stone curbing; also repairing sheet asphalt pavements in certain streets. F. H. Gates, city clk.

Del., Wilmington—Until June 10, by New Castle Co., building 2.87 mi. Silverside Rd., Brandywine Hundred Twp., 2.7 mi. Glasgow Rd., Pencader Hundred Twp., 4 mi. Hillside Mills Rd., Christiana Hundred Twp., 0.51 Greenback-Price's Corner, Christiana Hundred Twp., 2.10 mi. Hockessin-Yorklyn, Mill Creek Hundred Twp., 2.74 mi. Adam's Dam State Line, Christiana Hundred Twp., 12-14 ft. wide, 3 in. bituminous top surface (penetration or mixed method), estimated cost $160,000; 1400 ft. Duncan Rd., Brandywine Hundred Twp., new macadam or penetration method, $10,000. C. E. Grubb, co. engr.

Maryland—Until June 3, by State Rds. Comn., 601 Garrett Bldg., Baltimore, building 4.68 mi. road from corporate limits of Cumberland to Brady Lane, near Cresaptown, Federal Aid Project No. 24, Contr. No. A-17, 16 ft. wide, concrete, 8 in. thick in center and 6 in. on sides, Allegany Co. Former bids rejected. Noted May 15.

W. Va., Fayetteville—Until June 5, by Comrs. F ette Co., grading 3 mi. highway from Fayette to Lansing, involving 45,000 cu.yd. excav., about 30% rock. J. K. McGrath, Fayetteville, engr; advertised in this issue.

N. C., Henderson—Until June 17, by Mayor and Bd. Comrs. for 55,000 sq.yd. of asphalt, bitulithic, concrete, brick or other pavement, 7000 lin.ft. of granite or concrete curb, 7000 lin. ft. of concrete gutter, 9000 sq.yd. of sidewalk, 18,000 cu. yd. grading, etc. C. C. White, Durham, engr.

Ga., Griffin—Until June 3, by Comrs. Spalding Co., building 6.1 mi. concrete road to and from Experiment toward Henry Co. line, 6.1 in. thick, 18 ft. wide. About $250,000.

Ga., Metter—Until June 12, by Comrs. Candler Co., hard surfacing 15 mi. road with sand clay and ½ in. carpet coat sand asphalt. About $150,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, engrs.

Fla., Bunnell—Until June 9, by Comrs. Flagler Co., grading, draining, hard surfacing and building bridges and 26 mi. road in Shell Bluff Special Road and Bridge Dist. About $99,500. P. Kendrick, Bunnell, engr. Noted Feb. 27.

Fla., Daytona Beach—Until June 9, by Mayor, paving 48,000 sq.yd., 30,000 sq.ft. sidewalk, 8400 ft. concrete curb and gutter. C. M. Brown, Daytona, engr.

Fla., Jacksonville—Until June 10, by L. L. Meggs, chn. Duval Co. Comrs. paving 250 ft. Riverside Ave. from McDuff Ave. to Donald St., 2000 ft. McDuff Ave from Riverside Ave north, 1500 ft. Lem Turner Rd. from end of Pearl St. to State Fair Grounds, 1000 ft. Myrtle Ave. in South Jacksonville from Hendrix Ave. to first railroad crossing, asphalt penetration method; building 460 ft. concrete causeway on Atlantic Blvd.

Miss., Aberdeen—Until June 2, by Bd. Comrs. of Supervs. Dist. No. 3, building 4.46 mi. Lavender and Hamilton Rd. and 4 mi. Aberdeen and Caledonia Rd. Work involves 60,970 yd. grading, 4564 yd. gravel, 87 stations clearing and grubbing, 465 ft. 18-36-in. pipe. G. G. Ray, clk. G. E. Hauser, Columbus Natl. Bank Bldg., Columbus, engr. Noted Apr. 3.

O., McConnelsville—Until June 2, by Comrs. Morgan Co., grading, paving and building drainage structures on 4200 ft. Sect. "I," McConnelsville-Athens Rd., I. C. H. No. 162, Chesterville Village, bituminous macadam pavement, 20 ft. wide, 30 ft. roadway. About $18,390. J. Whitney, co. clk.

O., Toledo—Until June 3, by D. H. Goodwillie, dir. pub. serv., repaving 750 ft. Front St. from Main to Oak Sts., 48 ft. wide, involving 4020 sq.yd. paving on 6 in. concrete base, 300 lin. ft. curbing and 1060 cu.yd. earth excav., cost $13,971; 1625 ft. Bancroft St. from Vermont Ave. to Cherry St., 36 ft. wide, involving 6550 sq.yd. paving on 6-in. concrete base, 400 lin.ft. curbing and 2200 cu.yd. earth excav., $36,200. Bids will be received on all types of pavement. H. C. McClure, city engr.

Indiana—By Bd. Co. Comrs. building roads in following counties:

June 4, Harrison Co., Corydon, building stone road, Harrison Twp. S. M. Mauck, aud.

Shelby Co., Shelbyville, 3 gravel roads, Shelby, Hendricks and Washington Twps. F. W. Fagel, aud.

Huntington Co., Huntington, improving certain road in Jackson Twp. O. E. Eviston, aud.

June 7, Dubois Co., Jasper, building crushed limestone road, 2 mi. long, Patoka Twp. J. H. Sneg, aud

Huntington Co., Hunting, building 6 roads in Clear Creek, Warren, Jackson and Warren Twps. O. E. Eviston, aud.

June 14, Whitley Co., Columbia City, building 3 gravel and 5 concrete and gravel roads in Union and Columbia Twps. W. K. Burwell, aud.

June 20, Montgomery Co., Crawfordsville, building 6710 ft. gravel road on county line between Sugar Creek and Franklin Twps., Montgomery Co. and Sugar Creek Twp., Boone Co. D. F. Batman, aud.

June 21, Hendricks Co., Danville, building 21,102 ft. gravel and macadamized road in Monroe Twp., Morgan Co. and Liberty Twp., Hendricks Co. C. M. Havens, aud.

Mich., Ann Arbor—Until June 11, by Bd. Pub. Wks. paving North 4th Ave. from Ann to Kingsley Sts., Catherine St. from Main St. to 5th Ave., Detroit St. from Ann to Catherine Sts., Bway from Michigan Central R. R. bridge to north line Swift St., Detroit St. from Catherine St. to Michigan Central R. R. bridge, South University Ave. from State St. to Oxford Rd., East University Ave. from North University Ave. to Hill St., Thayer St. from North University Ave. to Huron St. Work involves 38,000 sq.yd. pavement, 38,000 sq.yd. concrete foundation, 20,000 lin.ft. curb, 10,000 cu.yd. excav. and 500 lin.ft. stone header. Alternate bids will be received on brick, asphaltic concrete and concrete pavement. I. G. Reynolds, city clk.

Mich., Mt. Clemens—Until June 5, by J. H. Mathews, city clk., grading and paving ½ mi. Clinton St. from North Gratiot Ave. to North Ave., 26 ft. wide. Bids will be received on all kinds of paving on concrete foundation.

Mich., Saginaw—Until June 2, by Comrs. Saginaw Co., building 9.5 mi. Assessment Dist. Rd. No. 21, in Birch Run, Frankenmuth and Bridgeport Twps., 18 ft. wide. Cost between $243,000 and $285,000. R. W. Roberts, Saginaw, engr.

Mich., Saginaw—Until June 2, by Comrs. Saginaw Co., building 14.517 mi. Assessment Dist. Rd. No. 11, Chapin, Marion and Lakefield Twps., Class B road, 9 or 12 ft. wide. Cost between $155,000 and $167,000. R. W. Roberts, Saginaw, engr.

Ill., Rockford—Until June 6, by Bd. Local Impvts., building brick pavements on portions of Elm and South Elm Sts., involving 11,300 sq.yd. brick, 4000 cu.yd. excav., 175 ft. curbing, 5960 ft. curb and gutter, etc. R. Rew, pres.; advertised in this issue.

Wis., Plymouth—Until June 17, by H. A. Luedke, city clk., furnishing and laying 23,000 sq.yd. paving, 13,000 lin.ft. curbing and 4599 cu.yd. grading on Western Ave., Milwaukee, Reed, Selma, Thayer, Caroline and Main Sts. Bids will be received on rein.-con., vitr. brick, asphaltic concrete and sheet asphalt. J. Donohue, York Bldg., Sheboygan, engr. Noted Apr. 19.

Minn., Brainerd—Until June 19, by C. W. Mahlum, aud. Crow Wing Co., improving 21 mi. Federal Aid Project No. 51, State Aid Rd. No. 2, involving 100 acres clearing and grubbing 140,000 cu.yd. grading, 20,000 cu.yd. overhaul, 6200 cu.yd. hand ditching, 500 lin.ft. tile drain; 101,600 lin.ft. shaping and compacting, gravel surfacing, 3 rein.-con. bridges, etc.

Minn., Hayfield—Until June 3, by G. L. Taylor, aud. Dodge Co., improving Federal Aid Project No. 66, State Rd. No. 1, State Aid Job No. 1802, involving 315 acres clearing and grubbing, 38,491 cu.yd. earth excav., 29 cu. yd. hand ditching, 600 lin.ft. tile drain, 7600 cu.yd. gravel surfacing, etc.

Kan., Strong City—City receiving bids for 21,296 sq.yd. bituminous paving, 8566 lin.ft. curb and gutter; also 782 lin.ft. to be repaird and raised; advertised in this issue.

South Dakota—Until June 5, by State Highway Dept., Pierre, improving 13.56 mi. Flandreau-Madison Rd., Moody Co. Work involves 44 sq.yd. clearing and grubbing, 51,168 cu. yd. earth excav., 28,358 yd. station overhaul of excav., 6181 cu.yd. gravel surfacing, to be hauled and spread, 427 cu.yd. concrete, 26,718 lb. steel reinforcement, 798 lin.ft. corrugated culverts, etc. About $41,000.

Streets and Roads (Continued)

Mo., Millersburg—Until June 9, by Comrs. Millersburg Special Rd. Dist., Callaway Co., grading and surfacing 7.6 mi. State Rd. Project No. 11, 9 ft. wide, gravel and macadam. Work involves one 83 ft. concrete bridge, tile culverts, etc. About $49,988. W. B. Cauthorn, Columbia, engr. Noted Feb. 13.

Ark., Blytheville—Until June 3, by Comrs. Paving Dist. No. 1 and Curbing, Guttering and Storm Sewering Impvt. Dist. No. 1, for 38,476 sq.yd. rein.-con. paving, 25,584 sq.yd. rein.-con. gutters, 42,582 lin.ft. concrete curbs and 1800 lin.ft. 15 and 18 in. vitr. pipe storm sewer with appurtenances. Pride & Fairley, Blytheville, engrs.

Ark., Fayetteville—Until June 16, at office of B. F. Campbell, judge, Washington Co., building 22.27 mi. limestone or gravel macadam road from Springdale to Madison Co. line. Hamilton & Shreve, Fayetteville, engrs; advertised in this issue.

New Mexico—Until June 24, by State Highway Comn., Santa Fe, building Sects. 3, 4 and 5 of State Rd. No. 6, Federal Aid Project No. 4, Valencia Co., 20.62 mi. from Rio Puerco to Armijo, involving 17,955 cu.yd. earth and 1466 cu.yd. rock excav., 1087 cu.yd. one course gravel surfacing, 823 lin.ft. 18-36 in. corrugated metal culvert, 158 cu.yd. Class "A," "B" and "C" concrete, etc. L. A. Gillett, state highway engr.

New Mexico—Until June 18, by State Highway Comn., Santa Fe, building Sect. 5, of State Rd. No. 1, Federal Aid Project No. 15, Dona Ana Co., 11.68 mi. from Las Cruces to Mesquite, involving 15,373 cu.yd. excav., 51 cu.yd. Class "A" concrete, 2978 lb. expanded metal reinforcement, 19,282 cu.yd. one course cement concrete, 75,200 sq.ft. metal reinforcement, etc. L. A. Gillett, state highway engr.

Wash., Vancouver—Until June 7, by Comrs. Clarke Co., building 6½ mi. Sara-Ridgefield Rd. from Permanent Highway No. 6 and Pacific Highway Junction to Fruit Valley-Sara Rd. Bids will be received on all types of pavement. B. L. Dorman, co. engr.

Oregon—Until June 10, by State Highway Comn., Portland, building Service Creek-Valades Ranch Sect. of John Day Highway, Wheeler and Grant Counties. Unit No. 1, 13 mi., involves 91,000 cu.yd. excav.; No. 2, 12.5 mi., 74,000 cu.yd. excav.; No. 3, 12 mi., 91,000 cu.yd. excav., and No. 4, 11.5 mi., 103,000 cu.yd. excav. About $43,000. H. Nunn, Salem, state highway engr.

Ore., Tillamook—Until June 5, by F. B. Stranahan, city recdr., paving, curbing and draining 7th St. from Miller to Stillwell Aves. Noted May 15.

Cal., Santa Barbara—Until June 5, by S. B. Taggart, city clk., improving Cliff Dr., Montecito and Costello Sts., etc. About $55,000. Plans include grading, 4-in. concrete paving with 1½-in. Warrenite surface, cement curbs and gutters, sewers, catch basins and manholes. A. B. Cook, city engr. Noted Mar. 13.

Que., Maple Grove—L. Houde, Plessisville, receiving bids for 7 mi. asphalt macadam road for Municipal Council.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Massachusetts—State Highway Comn., Boston, received bids May 20, building 4000 ft. road, 18 ft. wide, in Tewksbury Twp., involving 8500 sq.yd. bituminous macadam, 2835 cu.yd. earth excav., 1200 ft. c.i. pipe and 2740 cu.yd. broken stone, from P. F. Giovanini, Revere, $13,871; A. Pallotto, 117 Crosby St., Lowell, $14,337. Noted May 15.

Mass., Worcester—City received bids for 20,000 ft. curbing, including 250 corners, (a) straight, (b) circular, (c) corners, from F. A. McAuliffe, Worcester, (a) $0.72; (b) $1.05; (c) $3.15; Hildredth Granite Co., 31 State St., Boston, (a) $0.88; (b) $1.00; (c) $4.50.

Rhode Island—State Bd. Pub. Rds., State House, Providence, received lowest bid, May 16, building 9197 ft. East Main Rd., Portsmouth Twp., from Lane Constr. Corp., 37 Colony St., Meriden Conn., $49,838; 8180 ft. Waterman Ave., East Providence Twp., from B. Perini, Ashland, Mass., $63,772; 10,560 ft. Hartford Pike, Johnston and Scituate Twps., from R. H. Newell Co., Uxbridge, Mass., $46,281; 3550 ft. Mendon Rd., Lincoln Twp., from Winslow & Cummings, Nashua, N. H., $22,343. Noted May 8.

★**Conn., Bridgeport**—City let contract paving various streets, Warrenite, to Warren Bros. Co., 193 Berkeley St., Boston, Mass. About $600,000.

★**Conn., Hamden** (New Haven P. O.)—City let contract paving 2500 ft. State St., concrete, to C. W. Blakeslee & Sons, 58 Waverly St., New Haven. About $15,000.

★**New York**—State Highway Comn., Albany, let contracts completing 6.88 mi. Rd. 5544, Hinsdale-Franklinville, Part 2 and 4.73 mi. Rd. No. 5607, Franklinville-Machias, Cattaraugus Co., to Amer. Pipe & Constr. Co., 112 North Broad St., Phila., Pa., $130,748 and $128,817 respectively; 5.19 mi. Rd. No. 5622, Holland-Yorkshire, Part 1, Erie Co., to Cold Spring Constr. Co., Buffalo, $184,924; Rd. No. 1426, Whitehouse Bridge-Vermont State Line, Rensselaer Co., to L. Mayersohn, Albany, $83,977; repairing Rd. No. 4 and 615, Repair Job No. 1187, Columbia Co., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $87,645; Rd. No. 714, Repair Job No. 1214, Livingston Co., to M. H. Ripton, Livingston Bldg., Rochester, $63,418; Rd. No. 749, Repair Job No. 1222, Niagara Co., to Dale Eng. Co., Mann Bldg., Utica, $56,842; Rd. Nos. 42 and 157, Repair Job No. 1183, Orange Co., to Schunnemunk Constr. Co., Highland Mills, $57,109; Rd. No. 282, Repair Job No. 1182, Orange Co., to De Graff & Hogeboom, Inc., Kingston, $33,333; Rd. No. 521, Repair Job No. 1216, St. Lawrence Co., to McCarthy & Rock, Winthrop, $26,993; Rd. No. 5204, Repair No. 1223, Steuben Co., to Greenfield Constr. Co., 89 Main St., Hornell, $31,408. Noted May 22.

★**N. Y., Albany**—Bd. Contr. & Supply let contracts improving Euclid and Lenox Sts. and Homestead Ave., to M. F. Dollars, 7 Hall Pl., $17,499 and $26,150 respectively. Noted May 15.

N. Y., Brooklyn—E. Riegelmann, boro. pres., received bids May 21, regulating and repaving with permanent asphalt on 6-in. concrete foundation (a) Bay 22nd St., (b) Warren St., (c) 65th St., (d) regulating and repaving with grade 1 granite blocks, River St., from Uvalde Asphalt Paving Co., 1 Bway., New York City, (a) $16,141; (b) $49,033; (c) $103,839; Cranford Co., 52 9th St., (a) $16,413; (b) $49,724; (c) $100,736; Brooklyn Alcalraz Asphalt Co., 407 Hamburg Ave., (a) $16,942; (b) $47,710; (c) $107,763; Scott & Kurth, West Brighton, S. I., (d) $3221; Greicco Bros., (d) $3663; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (b) $49,000. Noted May 15.

★**N. Y., Buffalo**—City let contract to H. P. Burgard Co., Fillmore Ave., repaving 969 ft. Langmeyer Ave. between Bailey and Olympic Aves., 26 ft. wide, involving 2804 sq.yd. asphalt, 1918 lin.ft. Medina curbing, 1180 cu.yd. earth excav., cost $14,410; 1790 ft. Green St., between William and Lovejoy Sts., 17 and 30 ft. wide, 3891 sq.yd. asphalt on 6 in. concrete base, 3316 lin.ft. Medina curbing, 1650 cu.yd. earth excav., $21,425; 3685 ft. Deerfield Ave. between Delavan and Kensington Sts., 30 ft. wide, 12,306 sq.yd. asphalt, 6926 lin.ft. Medina curbing, 4353 cu.yd. earth and 12 cu.yd. rock excav., $54,000; to German Rock Asphalt Co., Inc., Morgan Bldg., 580 ft. Dewey Ave. between Fillmore and Castle Pl., 26 ft. wide, 1680 sq.yd. asphalt, 1094 lin.ft. Medina curbing and 532 cu.yd. earth excav., $6770.

★**N. Y., Saranac Lake**—Bd. Pub. Wks. will build macadam highway on Bloomingdale Ave., Woodruff and Dorsey Sts. About $25,000. Work will be done by day labor.

★**N. Y., Syracuse**—Bd. Pub. Wks. will improve Bellevue Ave. and change Wadsworth St. at intersection of Bellevue Ave. About $10,000. Work will be done by day labor. H. A. Allen, city engr.

★**Pa., Ebensburg**—Cambria Co. let contract rebuilding 1.6 mi. brick road on concrete base, from Beaverdale to Wilmore, Summerhill Twp., to J. Neapolitano, Johnstown, $43,114. Noted May 15.

Pa., Pittsburgh—Comrs. Allegheny Co. received bids building 5700 ft. Painters Run Rd., Bridgeville Boro., from T. Cronin, 17th and Muriel Sts., $53,137; M. Ott & Co., 4141 Warrington Ave., $54,538; Federal Constr. Co., Jones Bldg., $55,049. Work involves 625 sq.yd. vitr. brick, 7915 sq.yd. concrete, 1000 sq.yd. paved gutter, 12,000 cu.yd. earth excav. and 3100 ft. 6 in. vitr. pipe drain. Noted Apr. 24.

★**Pa., Springdale**—H. J. Barnes, boro. secy., let contract improving Pittsburgh St., Class "B" concrete sidewalk and plain curbing, to J. I. Dick, Scottsdale, $45,203. Noted Apr. 24 under "Pittsburgh."

★**Maryland**—State Rds. Comn., 601 Garret Bldg., Baltimore, let contract building 0.93 mi. concrete road through Reisterstown from end of concrete road to Hitchue's corner, Contr. No. B-34, Federal Aid. Project No. 27, Baltimore Co., and 2.7 mi. Baltimore-Washington Blvd. from Baltimore city limits to Baltimore & Ohio R.R. overhead crossing near Relay, Contr. No. B. W. A., to Amer. Paving and Contg. Co., Montebello Ave. and Jenkins Lane, Baltimore, $76,898 and $46,960 espectively; surfacing 1.38 mi. road between North East and Elkton, gravel, Contr. No. CE-26, Federal Aid Project No. 7, Cecil Co., to E. W. Brown, Port Deposit, $36,608; 2.15 mi. road from end of Constr. No. D-19 near Madison, to beginning of Contr. No. 466 at Parsons Creek, Constr. D-19 B, Dorchester Co., to Hilton Constr. Co., Denton, $59,979. Noted May 15th.

★**Md. Cumberland**—City let contract, to K. C. Constr. Co., 72 3rd Natl. Bank Bldg., paving North Liberty St. from Baltimore to Frederick Sts., wood block, cost $6151, Allamont Terrace from Baltimore to Harrison Sts., concrete, $6008, Rose Hill Ave. from Allegany St. to Arnet Ave., concrete, $1953, Patterson Ave. from Allegany to Beall Sts., brick, $4750, Beall St. from Baltimore & Ohio R.R. to Patterson Ave., brick, $8045; to Cumberland Contg. Co., 62 3rd Natl. Bank Bldg., paving Green St. from Brooke Ave. to city limits, brick, $81,720. Noted May 1.

★**Md., Cumberland**—Comrs. Alleghany Co. let contract building 4½ mi. concrete road from city limits to site of Amer. Cellulose and Chemical Mfg. Co., to R. G. Collins, Jr., 820 Munsey Bldg., Baltimore, $236,628. Noted Apr. 17.

★**W. Va., Elkins**—Comrs. Raleigh Co. let contract surfacing 8.65 mi. Surveyor-Marshes, Harper and Guyandotte roads, 9 ft. wide, macadam, with broken stone shoulders on either side, to Hennign & Hagerdon, Charleston. About $100,000.

★**W. Va., Pineville**—Comrs. Wyoming Co. let contract grading 4 mi. Elmore-Herndon Rd., 22 ft. wide, and building 2 bridges, to A. D. Weaver, Pineville. About $66,000. Noted May 1.

★**S. C., Chester**—Chester Co. let contract relocating, grading, draining and surfacing with top-soil 9.6 mi. road from here to York Co. line via Lewis, 30 ft. wide, to W. N. Thompson, Burlington, N. C., $48,522. Work involves 244 cu.yd. concrete, 46,930 cu.yd. earth excav., 761 lin.ft. vitr. pipe and 25,480 cu.yd. top-soil.

★**S. C., Gaffney**—Cherokee Co. let contract relocating, draining, grading and surfacing with top-soil 9.07 mi. Natl. Highway from city limits of Gaffney to Spartanburg Co. line, 30 ft. wide, to Blankenship & Elliott, 215 South Liberty St., Spartanburg, $47,511. Work involves 90 cu.yd. concrete, 66,000 cu.yd. earth, and 200 cu.yd. rock excav., 6600 cu.yd. gravel and 33,000 cu.yd. top-soil, etc.

★**S. C., Newberry**—Newberry Co. let contract re-locating, draining and surfacing, 5.63 mi. road from Little Mountain to Prosperity, involving 33,000 cu.yd. earth excav. and 860 lin.ft. vitr. pipe, to C. C. Jordan, Gaffney, $25,097.

★**Florida**—State Rd. Dept. Tallahassee let contract building 2¾ mi. road from Kissimmee and Campbell's Stations, to Maloney & Murphy, Jacksonville. About $60,000.

★**Ohio**—State Highway Comn., Columbus, let contract grading, constructing bridges and culverts and paving with concrete 2.48 mi. Sect. "I," Newark-Coshocton Rd., Coshocton Co., to Henderson Bros., Coshocton, $91,821. Noted May 8.

★**O., Cleveland**—City let contract paving Kraus Court from East 20th to 26th Sts., to McHugh Bros., 527 Society for Savings Bldg., $10,168; East 125th St. from Kinsman Rd. to Union Ave., to A. M. Pejsa, 527 Society for Savings Bldg., $16,372; East 114th St. from Harvard to Miles Aves., to Rieley Bros., 357 The Arcade, $16,936; West 98th St. from Loretta to Walford Aves., to Freshwater Paving Co., 11712 Detroit Ave., $19,832; West 24th St. from Franklin Ave. to Willeyville Alit., to Roehl Bros., West 25th St. and Clark Ave., $10,668; Aetna Rd., to Enterprise Paving Co., 8436 Bway Ave., $12,004. Noted May 22

Streets and Roads (continued)

O., Columbus—City received bids May 20, grading, draining, curbing, laying water mains and paving with (1) brick, (2) asphalt, (a) 783 ft. Stanley Ave. from Parsons Ave. to eastern terminus (b) 913 ft. Linwood Ave., from Bryden Rd. to Main St., (c) 1023 ft. Noble St. from Washington to Parsons Aves., (d) 1269 ft. 21st St. from Franklin Ave. to Broad St., from R. J. Deinst, 2515 West Broad St., (a1) $8126, (c1) $10,891, (d1) $9206; A. G. Pugh (a1) $9512, (a2) $7575, (b2) $9760, (c1) $12,115, (c2) $12,202, (d1) $9961, (d2) $9874; Franklin Asphalt Paving Co., (a2) $7,120, (b2) $8444, (c2) $10,-887, (d2) $9043; Andrews Paving Co., Arcade Bldg., (a2) $7676; Cleveland Trinidad Paving Co., Commerce Bldg., Cleveland, (b2) $9826, (c2) $11,938, (d2) $9899; P. A. Beasley, (c1) $11,452, (d1) $9567. Noted May 8.

★**O., Hamilton**—City let contract paving, guttering and curbing High St. and along Erie Canal, Trinidad Lake sheet asphalt, to Andrews Asphalt Paving Co., Rentschler Bldg., $58,710.

★**Michigan**—State Highway Comn., Lansing, let contract grading, paving with concrete and building drainage structures on 7 mi. road, 16 ft. wide, 24 ft. roadway, Cass Co., involving $13,486 cu.yd. concrete, to Wolverine Constr. Co., Kalamazoo, $172,-751.

Mich., Detroit—Dept. Pub. Wks. received bids paving with asphaltic concrete on 6 in. concrete base Berea, Medina or other curbing, (a) Harper Ave. from Hurlburt to Montclair Aves.; (b) Lakewood Blvd. from Kercheval to Waterloo Aves., from W. B. Brady Constr. Co., 1972 Grand River Ave., (a) $28,821; (b) $12,366; Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $28,-130; (b) $11,946; Clevela..d Trinidad Paving Co., 2940 Woodward Ave., (a) $28,915; (b) $12,240. Noted May 8.

Mich., Detroit—Dept. Pub. Wks. received bids paving with asphaltic concrete on 6 in. concrete base, Berea, Amherst or Medina curbing (a) 12th St. from Webb to Fenkell Aves.; (b) Casgrain Ave. from Army to Desmond St.; (c) Collingwood Ave. from 12th St. 1304 ft. west to westerly terminus; (d) Fremont Pl. from Elmwood to Ellery Aves.; (e) Pittsburg Ave. from Gilbert to Martin Aves.; (f) Sargeant St. from Elmwood to Moran Aves.; (g) Sunset Pl. from Woodward Ave. to John R. St.; (h) Tireman Ave. from Epworth Blvd. to Livernois Ave.; (i) Weyher Ave. from McClellan to Pennsylvania Aves., from Cleveland Trinidad Paving Co., 2940 Woodward Ave., (a) $119,880; (b) $27,172; (c) $16,-948; (d) $13,823; (e) $16,244; (f) $8009; (g) $9416; (h) $25,213; (i) $8846; W. B. Brady Constr. Co., 1972 Grand River Ave., (a) $120,577; (b) $27,267; (c) $16,825; (d) $14,003; (e) $16,203; (f) $8181; (g) $9926; (h) $25,010; (i) $9229; Detroit Asphalt Paving Co., 20 McGraw Bldg., (a) $121,930; (b) $26,907; (c) $17,079; (d) $13,580; (e) $15,992; (f) $7899; (g) $9585; (h) $25,053; (i) $8834. Noted May 1.

Mich., Port Huron—City received only bid, from J. H. Baker & Sons, Port Huron, paving Pine St. from Military to 13th Sts., involving 5175 cu.yd excav., 12,417 sq.yd. paving, 7000 ft. side drain, 4400 ft. curb to reset, 200 ft.- 8-in. sewer and 12,-417 sq.yd. reinforcing, concrete, $37,395; 3-in. vertical brick fiber with bituminous filler, $52,789; 4th St., from Water to Wall Sts. and from Union to Griswold Sts, 2020 cu.yd. excav., 6050 sq.yd. paving, 3500 ft. concrete curb, 6050 sq.yd. reinforcing concrete, $18,275, brick, $26,025; Crescent Pl. from Water to 10th Sts., 645 cu.yd. excav., 215 cu.yd. fill, 1935 sq.yd. paving, 1200 ft. 4-in. side drain, 1925 sq.yd. reinforcing concrete, $5216, brick, $8093; Jenkinson St. from 7th to Military Sts., 260 cu.yd excav. and 745 sq.yd. paving, concrete, $1789, brick, $2766; all 30 ft. wide. Noted Apr. 10.

★**Illinois**—State Highway Comn., Springfield, let contract building Sect. 12 and H-15d, Lincoln Highway, Lee Co., to Keokuk Quarry & Constr. Co., Keokuk, Ia. About $121,000. Noted Apr. 3.

★**Minn., Windom**—Comrs. Cottonwood Co. let contract grading 17.5 mi. Federal Aid Project No. 43, State Rd. No. 12, to Cameron & Joyce, Keokuk, Ia., $55,098. Noted May 1.

★**Kan., Eureka**—City let contract, to M. S. Amerman, Salina, for 23,400 sq.yd. 2 in. asphalt paving on 5 in. concrete base at $2.39 per sq.yd., 15,000 lin.ft. curbing and guttering at $0.88 per ft. and 10,100 cu.yd. earth excav. at $0.90 per cu.yd. Total cost, $74,061. Noted May 22.

★**Kan., Garden City**—City let contract (a) paving, (b) curbing and guttering, improving Main and various other streets, to M. R. Amerman, Salina, (a) $3.69 per sq.yd., (b) $1.10 per ft. Total cost, $114,-109. Noted May 22.

★**Kan., Peabody**—City let contract improving sections of Olive, Walnut, Sycamore, Maple, Elm, Division, 1st, 3rd and 4th Sts., (a) paving, (b) curbing, (c) excavating, to Kaw Paving Co., 616 New England Bldg., (a) $41,632, (b) $28,345, (c) $0.90 per cu.yd. Noted May 22.

★**Neb., Alliance**—Box Butte and Sheridan Counties let contract grading and sand clay surfacing 14.8 mi. Alliance-Antioch Rd., 24 ft. wide, grading, to J. F. Roberts Constr. Co., 206 Tramway Bldg., Denver, Colo., $59,800, culverts, to Central Bridge Constr. Co., Wahoo, $3340. Noted Apr. 24.

★**Neb., Columbus**—Platte and Madison Counties let contract grading 232,000 yd. of Federal-aid road from here to Norfolk, via Platte Center and Humphrey, to E. Peterson Co., 1217 Woodmen of World Bldg., Omaha, $85,840. Noted Mar. 27.

★**Neb., Lincoln**—City let contract paving 21st St., 25 ft. wide, to Burke-Cochrane Constr. Co., Lincoln, $29,718. Noted May 8.

★**Neb., Plattsmouth**—Cass and Otoe Counties let contract grading 144,000 yd. of Federal-aid road from here to Nebraska City, to E. Peterson Co., 1217 Woodmen of World Bldg., Omaha, $55,440.

★**Neb., Schuyler**—Colfax and Polk Counties let contract grading 176,611 yd. of Federal-aid road from here to Osceola, to E. Peterson Co., 1217 Woodmen of World Bldg., Omaha, $64,463.

Neb., Wahoo—Saunders and Dodge Counties let contract grading 30.3 mi. Fremont-Ceresco Rd., 24 ft. wide, to Lamoreaux Bros., 805-11 Brandeis Theater Bldg., Omaha. $53,249. Noted Apr. 24.

★**Neb., Wayne**—Wayne and Cedar Counties let contract grading 232,000 yd. Federal-aid road from here south to Cedar Co. line, to E. Peterson Co., 1217 Woodmen of World Bldg., Omaha, $55,680. Noted Mar. 27.

★**South Dakota**—State Highway Dept., Pierre, let contract building 12.6 mi. Aberdeen-Webster Rd., 26 ft. wide, Brown Co., to G. W. Humphrey, Pingree, N. D., $64,159. Noted May 1.

Tex., Haskell—Comrs. Haskell Co. received bids improving 16.797 mi. State Highway No. 39, 20 ft. wide, (a) concrete, (b) road work, from J. T. Rose & Son, Spur, (b) $16,758; C. Whitener, Spur, (a) $9348; Haskell Co., Haskell, (a) $9573. Noted May 15.

★**Tex., Mason**—Mason Co. let contract gravel surfacing and draining 24,878 mi. State Highway No. 9, from Mason southeast to Gillespie Co. line, 9 ft. wide, to Alamo Constr. Co., Frost Bldg., San Antonio. $86,801. Work involves 1070 cu.yd. concrete, 52572 cu.yd. earth and 1219 cu.yd. rock excav. and 41,227 lbs. reinforcing steel. Noted Mar. 6.

★**Nevada**—State Highway Comn., State Printing Office Bldg., Carson City, let contracts building Sect. C-1 Route 3 of State Highway, Tonopah to Millers cut off road, to J. O'Keefe, Goldfield, cost $33,576; Sect. A-1 Route 1, of State Highway, to W. Licking, Battle Mountain, $27,022; 16.73 mi. State Highway from Elko to Vivian, to J. H. Rooney, 1459 West 37th Pl., Los Angeles, $106,112.

★**Ariz., Phoenix**—City let contract improving Adams St. between 18th and 22nd Aves., to Southwestern Contg. Co., O'Neil Bldg., $33,716. Work involves 10,965 sq.yd. paving, $2 per sq.yd., 10,965 sq.yd. grading, $0.25, 4400 lin.ft. combination curb and gutter, $1.25, 215 lin.ft. single curb, $0.70, 60 lin.ft. single gutter, $0.70 and 20 lin.ft. valley gutter, $1.10.

★**Wash., Seattle**—Bd. Pub. Wks. let contract building sidewalks on 29th Ave., et al, involving 8821 sq.yd. concrete, to Goetz & Brennan, Seattle, $29,372. Noted May 22.

★**Wash., Seattle**—Bd. Pub. Wks. let contract building sidewalks on 13th Ave. S., et al, involving 1000 cu.yd. grading, 4120 sq.yd. concrete and 5000 ft. wooden curbing, to W. J. Smith, 4727 47th St. S., $10,-331.

★**Wash., Walla Walla**—City Comrs. let contract paving 25,000 sq.yd. Alvarado, Clinton, 1st, Walnut and Thorne Sts., to Warren Constr. Co., Walla Walla, $69,992.

Railways

PROPOSED WORK

Wisconsin — Chicago-Northwestern Ry. plans to excavate grade and fill in sidetrack in Sheboygan, extending from city limits to city limits, involving 5000 cu.yd. earth and 2500 rock excav. About $12,000. T. W. Bowles, Chicago, ch. engr.

Oregon—Port of Astoria Comm. Astoria, plans to build belt line railroad to connect with Astoria Iron Wks. About $36,-000. R. R. Bartlett, Astoria, engr.

New Brunswick—Canadian Natl. Rys., Moncton, soon lets contract building 120 mi. double track line from Moncton to Truro, N. S. L. S. Brown, Moncton, supt.

Excavation and Dredging

PROPOSED WORK

Mich., Sheffield—Excavation. Fairbanks, Morse & Co. plan to change course of St. Joseph River for ¾ mi. across their property, involving 120,000 yds. sand, gravel and muck excav.; preferably by centrifugal dredging pump. P. L. Bunn, engr.

Minn., Minneapolis—Ditch—Comrs. Hennepin Co. soon lets contract building Co. Ditch No. 32. A. P. Erickson, aud.

Mont., Billings—Canal—Victory Irrigation Dist. plans to build lateral irrigation canals to reclaim 1800 acres; water taken from Big Horn River and Lost Hope Ditch.

Mont., Miles City — Canals — Buffalo Rapids Irrigation Dist. plans election to vote on $75,000 bonds to build canals to irrigate 5000 acres.

Mo., Poplar Bluff—Excavation — Comrs. Inter. River D. D., Butler Co., rejected bids received May 14, building 200 mi. open ditch, 12-55 in. wide at base, 8 ft. deep, involving 7,200,000 cu.yd. floating dredgework. About $1,000,000. Morgan Eng. Co., Goodwyn Institute, Memphis, Tenn., engrs. Noted Apr. 3.

Cal., Calexico—Excavation—P. B. Steintorff, city clk., soon receives bids excavating for 2 additional settling basins for water plant, cost, $20,000; also adding additional pumping facilities, $20,000.

BIDS DESIRED

N. Y., S. I., St. George—Dredging—Until June 6, by J. H. Delaney, comr. plant and structures, Municipal Bldg., New York City, dredging site of old coal dock at St. George Terminal of Staten Island Ferry.

Fla., Sanford—Ditch—Until June 3, by Comrs. Seminole Co., building 9.18 mi. of ditches, involving 58,660 cu.yd. excav. F. T. Williams, Sanford, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Chatham** — Channel—City let contract dredging channel and building jetty to J. R. Burke Co., 78 Devonshire St., Boston, $11,850. Work involves 5000 cu.yd. floating dredgework and 350 ft. rock jetty.

Mass., Gloucester—Channel—F. W. Hodgdon, engr., 473 State House, Boston, received bids May 21, dredging channel and building dolphins involving 37,000 cu.yd. floating dredgework and 320 cu.yd. submarine rock excav., from G. F. Rendle, 270 Condor St., East Boston, $31,710; Boston Dredging Co., 172 Condor St., East Boston, $43,455; Bay State Dredging Co., 62 Condor St., East Boston, $45,610.

★**N. J., Union Hill** — Excavation — Bd. Educ. let contract excavating for No. 2 school on Hudson Ave. and 2nd St., to E. Hornung, West Hoboken, $5000, extra work, $5.00 per cu.yd. Noted May 22.

★**Wis., Sheboygan** — Drainage — Cedar Grove Village let contract installing drainage system, involving 9000 ft. 4-10 in. tile, to L. Cornelius & Co., North 14th St.; about $17,500. Noted May 1.

★**Wis., Sheboygan** — Drainage—City let contract installing drainage system in Sects. Nos. 10-15-16-17, Sheboygan Falls Twp., to J. Van Deusler, South 8th St. About $13,500. Work involves 7500 ft. 12-14 in. tile. Noted May 1.

Industrial Works

PROPOSED WORK

R. I., Providence—K. B. Ely, Boston, Mass., receives bids in June building 1 story, 52 x 85 ft., brick, steel and rein.-con. auto sales and service station, rein.-con. flooring, concrete foundation, on Reservoir Ave., here. About $30,000. W. R. Walker & Son, 117 Custom House St., archts.

Industrial Works (Continued)

Conn., Bridgeport — Columbia Graphophone Co., Barnum Ave., soon receives bids building 6-story, 80 x 240 ft. rein.-con. addition to plant, rein.-con. flooring, concrete foundation. About $200,000.

Conn., New Britain—Plans are out for figures for 1-story, 50 x 100 ft. brick and mill construction factory, rein.-con. flooring, concrete foundation, on Center St., for Landers, Frary & Clark, Commercial and Center Sts. Davis & Brooks, Gold St., Hartford, archts.

N. Y., Binghamton—P. J. McManus, Peoples Trust Co. Bldg., and G. S. Phalen, have purchased Middlebrook property, Lewis St., extending block on State St., from Armory Theatre to Lewis St., and plan to convert present mill into modern fireproof machine shop and repair garage. Cost between $25,000 and $35,000.

N. Y., Brooklyn—B. A. Cushman Sons, Inc., 49 Manhattan St., New York City, soon let contract building 3-story, 140 x 200 ft. brick and steel bakery, rein.-con. flooring, brick foundation, on Atlantic and Troy Aves., here. About $100,000. L. S. Beardsley, 40 West 32nd St., New York City, archt. and engr. Noted May 1.

N. Y., Brooklyn—Magid, Katzman & Stroker, 58 Boerum St., having revised plans prepared by H. J. Nurick, archt., 949 Bway, for 3-story, 100 x 168 ft., rein.-con. and steel warehouse, garage and workshop, rein.-con. flooring, concrete foundation, on Jefferson St., Wyckoff and Flushing Aves. About $120,000. Noted Apr. 24.

N. Y., Buffalo—R. C. Fayfield, archt., Iroquois Bldg., receives bids about May 31, building 6-story, 50 x 100 ft. brick and rein.-con. warehouse, rein.-con. flooring, concrete foundation, for Robertson Cataract Co., 151 West Montauk St. About $80,000.

N. Y., Long Island City—Steinway & Sons, 107 East 14th St., New York City, soon let contract altering and building rein.-con., steel and brick addition, rein.-con. flooring, concrete foundation to factory on Ditmar Ave., between 15th and 16th Aves. About $75,000. W. K. Benedict, 527 5th Ave., New York City, archt. Noted Apr. 3.

N. Y., New York—H. S. Coffin, 44 Pine St., had plans prepared by G. M. McCabe, archt., 96 5th Ave., for 2-story, 99 x 188 ft., steel and brick garage, rein.-con. flooring, concrete foundation, at 388-394 11th Ave. About $100,000.

N. Y., Niagara Falls—Republic Carbon Co., Sugar St., had plans prepared by A. G. Smith, engr., c/o owners, for 1-story, 50 x 167 ft. brick, steel and concrete plant, concrete foundation. About $75,000.

N. Y., Rochester—Eastman Kodak Co., Kodak Park, plans to build 2-story, 66 x 150 ft. "L" shaped rein.-con. factory, on Platt St. About $200,000.

Pa., Scranton—Maloney Oil & Mfg. Co., Land Title Bldg., Philadelphia, having plans prepared by J. J. Howley, archt., Traders' Bank Bldg., for 1-story, 36 x 76 ft., brick, stone and concrete, service station, concrete foundation, on City Hall Sq. here. About $50,000.

Md., Baltimore—Gardner Baking Co., c/o W. A. Gardner, 119 South Paca St., plans to alter and build 2 and 3-story, 43 x 54 ft. and 24 x 56 ft., rein.-con., steel and brick addition to bakery on Preston St. and Madison Ave. Cost, including machinery, $85,000. E. H. Glidden and T. W. Pietsch, 1210 Amer. Bldg., archts.

Md., Sparrows Point (Baltimore P. O.)—Bethlehem Steel Corp. plans to double size of present tinplate plant, also build 12 sheet mills and additional open hearth furnace. About $25,000,000. C. M. Schwab, chn. bd. dirs.

O., Cleveland—Guide Motor Lamp Co., 11400 Madison Ave., had plans prepared by A. C. Wolf, archt., 805 Swetland Bldg., for 2-story, 60 x 180 ft., steel and brick factory and office, at 1500 West Madison Ave., About $40,000.

O., Cleveland—G. W. Hale, 340 Leader-News Bldg., had plans prepared by H. T. Jeffreys, archt., 1836 Euclid Ave., for 3-story, 165 x 180 ft., rein.-con., steel and brick garage, on East 9th St. and Bolivar Rd. About $150,000. Noted Apr. 17.

O., Cleveland—J. M. Halladay, 9414 Richmond Ave., had plans prepared by Watson Eng. Co., engrs., 1101 Hippodrome Bldg., for 2-story, 75 x 200 ft., concrete, steel and brick factory at 9414 Richmond Ave. About $150,000.

O., Cleveland—Sabin Machine Co., 6536 Carnegie Ave., had plans prepared for 3-story, 45 x 80 ft., concrete, steel and brick addition to machine shop. About $30,000.

O., Cleveland—Union Garage Co., 517 Sloane Bldg., soon lets contract building 2-story, 165 x 212 ft., concrete, steel and brick garage on West St., Clair Ave. G. A. Grieble, 517 Sloane Bldg., archt.

O., Ironton — Ohio Valley Mining Car Mfg. Co., c/o M. E. Brown, Ohio Valley Machine Wks., 713 2nd Ave., Huntington, W. Va., plans to build 1-story, 100 x 300 ft. fireproof plant, here. About $50,000. Architect not selected.

Mich., Detroit—Gen. Motors Corp., Boyer Campbell Bldg., had plans prepared by Esselstyn, Murphy & Hanford, archts. and engrs., 810 Marquette Bldg., for 1-story, 100 x 360 ft. heat treatment shop, 1-story, 360 x 600 ft. shop and 2-story, 30 x 360 ft. office, concrete, brick and steel, rein.-con. flooring, concrete foundation, also 500 ft. shipping platform, on Holbrook and St. Aubin Aves.

Mich., Detroit — Maxwell Motor Co., Woodward and Warren Aves., soon lets contract building 1-story, 102 x 157 ft., concrete and steel, assembling plant No. 17B, rein.-con. flooring, concrete foundation, on Oakland Ave. Smith, Hinchman & Grylls, 710 Washington Arcade Bldg., archts.

Wis., Milwaukee—United Storage Co., 233-239 East Water St., had plans prepared by M. Tullgren & Sons Co., archts., 425 East Water St., for 6-story, 60 x 150 ft. storage warehouse, on Prospect and Woodstock Sts. About $130,000.

Wis., Sheboygan—H. C. Prange Co., 731 North 8th St., plans to build 2 story, 60 x 110 ft. concrete or brick garage, brick foundation, on Wisconsin Ave. Cost between $50,000 and $60,000. Architect not selected.

Tex., Eastland—Texas & Pacific R.R., Dallas, plans to build shops and division headquarters, here. About $500,000. E. F. Mitchell, ch. engr.

Okla., Okmulgee—The Okmulgee Sheet Glass Co. plans to build a factory. About $75,000. Architect not selected.

Wash., Vancouver—Daily Clay Products Co. having plans prepared by A. H. Haley, archt., Vancouver, for 1st unit of plant. About $50,000.

Ore., St. Johns—Eagle Flour Mills Co., Portland, plans to build 4 unit flour mill, at municipal terminal, here, first unit to have 750 bbl. daily capacity; total daily capacity 3000 bbl. Plans include warehouse. Total cost, $250,000.

Ore., Tillamook—Ackley & Miller having plans prepared by Stokes & Zeller, archts., Chamber of Commerce Bldg., Portland, for 1-story, 105 x 143 ft. rein.-con. garage.

Cal., Emeryville—Oakland Terminal Co., Oakland, having plans prepared by C. N. Burrell, archt., 217 1st Trust Bldg., Oakland, for 1-story, 22 x 450 ft., brick terminal warehouse, concrete foundation.

Cal., Los Angeles — Bd. Pub. Serv., 645 South Olive St., plans election June 3, to vote on $2,500,000 bonds to build power plant No. 2 in San Francisquito Canyon and power development in Owens River gorge and $11,000,000 bonds for purchasing distributing system owned by Southern California Edison Co. E. F. Scattergood, 645 South Olive St., engr.

Cal., Riverside—California Date Assn. plans to build packing plant. About $50,000. Architect not selected.

Cal., San Francisco—Grosjean Rice Mill Co., 3210 20th St., purchased 362x800 ft. site, in Islais Creek Dist., and plans to build mill and warehouse. Architect not selected.

Ont., London—Scott-Chamberlain Co., Richmond St., plans to build brick and steel addition to shoe factory, concrete foundation. About $45,000.

Ont., Oshawa — Ontario Steel Products Co., Ltd., plans to build factory here. About $1,500,000. Sampson & Bain, Gananoque, representatives.

Ont., Perth—Wampole Co., Sherbrooke St., plans to build 1 story, 30 x 90 ft. brick box factory. About $33,000.

Ont., Toronto—A. C. Chapman, archt., Harbor Bldg., soon lets contract building brick factory for Canadian Ice Mchy. Co., 82 Chestnut St. About $60,000. Noted Apr. 24.

Man., St. Boniface—Clarx Milling Co. plans to build 5-story, flour mill and storage building. About $275,000.

BIDS DESIRED

Conn., Hartford—Until May 31, by Libby, McNeil & Libby, 252 Asylum St., building 3-story, 50 x 112 ft., rein.-con. cold storage plant, rein.-con. flooring, concrete foundation, on Edwards St. About $60,000. P. Larmon, c/o Swift & Co., Union Stock Yards, Chicago, archt. Noted Jan. 30.

N. Y., Amsterdam—McCleary, Wallin & Crouse, 57 Lyon St., receiving bids building 3 story, 135x325 ft. main building with two 2-story, 75 x 130 ft., rein.-con. and brick additions and 1-story, 130 x 150 ft. picker house, mill construction, rein.-con. flooring, concrete foundation. About $500,000. F. P. Sheldon & Son, Rhode Island Hospital Trust Bldg., Providence, R. I., engrs.

Ill., Chicago—A. Woltersdorf, archt., 138 North La Salle St., receiving bids building 1-story, 65 x 162 ft., 2-story, 49 x 162 ft. and 3-story, 89 x 94 ft. mill construction bakery plants, concrete foundation, at 5324 Federal St., here, for Gordon-Pagel Co., 461 Chene St., Detroit, Mich. About $125,000.

Wis., Manitowoc—Until June 15, by R. Rauber, archt., Manitowoc, for converting brewery into ice cream factory and building 2 story, 90 x 140 ft. rein.-con. and brick addition, brick foundation, for Manitowoc Brewing Co., 9th and Marshall Sts. About $72,000. Noted Mar. 20.

Wis., Sheboygan—Until June 2 by Wadham Oil Co., 359 Clinton St., building 2 story, 60 x 150 ft. concrete, brick and steel ware house on Michigan Ave. Leiser & Holst, 105 Wells St., Milwaukee, archts.

Wis., Sheboygan—Until June 15, by F. Blocki Co., c/o F. Blocki, 8th and Maryland Aves., building 3 story, 60 x 120 ft. brick and steel factory, rein.-con. flooring, brick foundation, on 15th St. About $60,000. Noted Apr. 17. Architect to be selected in few days.

Wis., Sheboygan—Until June 15, by Columbia Shoe Co., c/o C. Wolf, 1525 North 10th St., building 2-story, 40 x 90 ft., concrete, brick and steel shoe factory, brick foundation, on 10th St.

Que., Cap de la Madeleine—St. Maurice Paper Co., receiving bids for pump house, model maker and machine shops. About $31,000. J. Harris, vice pres. Noted Feb. 20.

Que., Grand Mere—Laurentide Co., Ltd., McGibbon St. and 3rd Ave., receiving bids for factory. About $30,000. D. Wurtile, c/o owner, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Vt., Vernon**—Connecticut River Power Co., Osgood Bradley Bldg., Worcester, Mass., will build 65 x 110 ft. brick, rein.-con. and steel addition to power plant, rein.-con. flooring, concrete foundation, along Connecticut River, here. About $1,000,000. Work will be done by day labor.

★**Mass., Boston**—Eliot St. Garage Co. let contract building 4-story, 120 x 200 ft. brick, concrete and steel garage and storehouse, rein.-con. flooring, concrete foundation, on Eliot St., to G. W. Harvey Co., 201 Devonshire St. About $1,250,000.

★**Mass., Boston**—Quincy Cold Storage Co. let contract building 10-story, 60 x 180 ft., rein.-con. cold storage plant, rein.-con. flooring, concrete and pile foundation, on India Wharf, to B. Fox, Inc., 15 Exchange St. About $500,000.

★**Mass., Springfield**—J. Weisenberg, 143 10th St., let contract building 1 story, 92 x 107 x 108 ft. brick and concrete garage, rein.-con. flooring, concrete foundation, on Nursery and Liberty Sts., to H. S. Sherman, 143 10th St. About $30,000.

★**R. I., Woonsocket**—Jarret & Proulx let contract building 2-story, 75 x 150 ft. brick and mill construction mill, wood flooring, concrete foundation, on Park Ave., to J. F. Fleurent & Son, 158 Rathbun St. About $60,000. Noted May 15.

★**Conn., Hartford** — Hartford Electric Light Co., 266 Pearl St., let contract altering present plant and building 1 story brick and concrete garage, rein.-con. flooring, concrete foundation, on Sheldon St. to J. H. Grozier Co., 721 Main St. About $35,000.

★**N. Y., Brooklyn**—H. W. Cotton Co., Inc., 233 Bway, New York City, let contract building 6-story, 80 x 500 ft. rein.-con. and steel factory, rein.-con. flooring, concrete foundation, on 35th St., here, to F. T. Ley, 19 West 44th St., New York City. About $1,000,000. Noted Oct. 3.

Industrial Works (Continued)

★**N. Y., Brooklyn**—Liberty Wyona Co., 100 Bristol St., will build 1-story, 100 x 110 ft. brick and steel garage, rein.-con. flooring, brick foundation, on Pilling St. and Evergreen Ave. About $25,000. Work will be done by day labor.

★**N. Y., Brooklyn**—Parshelsky Bros., Johnson Ave., will build 1-story, 200 x 200 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Morgan and Montrose Aves. About $150,000. Work will be done by day labor.

★**N. Y., New York**—R. Carvel, 401 West 89th St., will build 2-story, 75 x 100 ft., brick and steel garage, rein.-con. flooring, brick foundation, at 245 West 61st St. About $50,000. Work will be done by day labor.

★**N. Y., New York**—L. Gold, 44 Court St., Brooklyn, will build 5-story, 100 x 100 ft., rein.-con. garage, rein.-con. flooring, concrete foundation, at 229-235 West 64th St., here. Work will be done by day labor.

★**Pa., Altoona**—Eagle Bakery let contract building 3 story, 20 x 40 ft. brick addition to bakery, to H. Horn, Holidaysburg. Cost, including fixtures, $52,000.

★**Pa., Phila**—O. J. Maigne Co., 1017 Sansom St., let contract building 3-story, brick and steel factory, rein.-con. flooring, brick foundation, to W. Linker Co., Ferry and 9th Sts. About $30,000. Noted May 15.

★**S. C., Columbia**—City will build 1-story, 30 x 95 ft., brick and concrete abattoir, brick foundation, on Broad River Rd., 2 mi. from here. About $40,000. Work will be done by day labor.

★**O., Cleveland**—Haberman Provision Co., 2302 Bway Ave., let contract building 2-story, 46 x 60 ft., rein.-con., steel and brick addition to factory, to J. A. Moffett Co., 1836 Euclid Ave. About $25,000. Noted May 15.

★**O., Cleveland**—Superior Fdry. Co., 3310 East 71st St., let contract building 1-story, 60 x 131 ft., concrete, steel and brick addition to foundry, to F. W. Ruple Co., 5103 Euclid Ave. About $30,000. Noted May 1.

★**O., Cleveland**—Van Dorn Tool Co., 2978 Woodhill Rd., let contract building 4-story, 50 x 100 ft., rein.-con., steel and brick factory, to S. W. Emerson, 1900 Euclid Ave. About $100,000. Noted May 1.

★**Ill., Chicago**—Iron Mountain Co., 6416 Stoney Island Ave., let contract building 1 and 2-story, 110 x 400 ft. fireproof plant, concrete foundation, on 95th St., near Cottage Grove Ave., to E. P. Strandberg Co., 133 West Washington St. About $150,000.

★**Ill., Chicago**—Premier Electric Co., 1123 South Wabash Ave., let masonry and carpentry contract for 2-story, 75 x 125 ft., mill construction factory, concrete foundation, on Grace St. and Ravenswood Ave., to Menke-Thielberg Co., 139 North Clark St. About $35,000.

★**Wis., Sheboygan**—Armour & Co., c/o A. Lotz, Chicago, let contract building 1 story, 60 x 150 ft., brick, rein.-con. and steel cooler and warehouse, concrete flooring, brick foundation, on South Water St., to J. L. Carnegie, 189 West Madison St., Chicago. About $55,000.

★**Wis., Sheboygan**—United Phonographs Corp., c/o L. Jenkins, 1121 South 13th St., let contract building 3-story, 72 x 120 ft. rein.-con. and steel factory, brick foundation, on Kentucky and 13th Sts., to M. Stubenrauch, 1426 Maryland Ave. About $70,000.

★**Ia., Sioux City**—Western Terminal Elevator Co. let contract building 1,000,000 bu. rein.-con. grain elevator, to Burrell Eng. & Constr. Co., 327 South La Salle St., Chicago. About $300,000. Noted Jan. 16.

★**Kan., Topeka**—Capper Publishing Co., 8th and Jackson Sts., let contract building 2-story, 75x100 ft., rein.-con. and brick addition to printing plant, rein.-con. flooring, concrete foundation, to F. M. Spencer & Son, 214 Mulvane Bldg. About $50,000.

★**N. D., Devils Lake**—R. E. Cobb Co. 3rd and Cedar Sts., St. Paul, Minn., let contract building concrete cold storage and meat packing plant, rein.-con. flooring, here, to H. C. Strucher, 405 Dakota Bldg., St. Paul, Minn. About $60,000.

★**Mo., Carthage**—Howard-Hulme-Dettrick Shoe Co. let contract building 2 story, 97 x 100 ft., brick factory, concrete foundation, on 4th and Maple Sts., to L. W. Mason, Carthage. About $35,000.

Tex., Houston—Dow Motor Co., 800 Walker Ave., let contract building rein.-con. and hollow tile garage, to A. Ness, 3210 Smith St. About $36,000.

★**Ore., Astoria**—Port of Astoria Comn. let contract building 6-story, 47 x 100 ft. rein.-con. flour mill, 3-story, 30 x 47 ft. office annex and 3-story, 32 x 47 ft. packing room annex, to M. Willis, Seattle, $75,672. Noted May 15.

★**N. S., Sydney**—Dominion Tar & Chemical Co., Ltd., let steel contract building steel and concrete, still house, to Sydney Fdry. & Machine Co., Sydney, concrete, to R. V. Hall, Mira Rd. About $30,000.

★**Ont., Guelph**—Northern Rubber Co., Ltd., let contract building 4 story, 80 x 200 ft. rein.-con. factory, on Metcalf St., to P. H. Secord & Son, 133 Nelson St., Brantford. About $100,000. Noted May 8.

★**Ont., Sarnia**—Romeo Fdry. Co., Port Huron, Mich., let general contract for foundry here, to Wells & Gray, Ltd., Confederation Life Bldg., Toronto; steel, to Sarnia Bridge Co., Ltd., 176 North St. Total cost, $50,000. Noted May 8.

Buildings

PROPOSED WORK

Mass., New Bedford—High School—City receives bids in June for addition and alteration to 3-story brick, rein.-con. flooring, brick foundation. About $200,000. Smith & Howland, Pleasant St., archts. Noted Jan. 23.

Conn., New Haven—Bank—Pallotti-Andretta Co., 630 Chapel St., soon lets contract building 3-story, 75 x 90 ft. brick, steel and concrete, rein.-con. flooring, concrete foundation, on Olive and Chapel Sts. About $100,000. D. Guerriero, 647 Main St., Hartford, archt. Noted Feb. 27.

Conn., New Haven—Business—P. J. Kelly & Co., 74 Orange St., soon receives bids building 4-story, brick and steel addition. About $60,000. W. H. Allen, 82 Church St., archt.

Conn., New Haven—Y. M. C. A., 152 Temple St., purchased site on Chapel and Howe Sts. and plans to build 1 and 4-story club and gymnasium. Cost to exceed $50,000. Architect not selected.

Conn., Stratford (Bridgeport P. O.)—Business—H. C. Lorell, 2419 Main St., soon receives bids building 3-story, 100 x 104 ft., brick and concrete, concrete foundation. About $60,000. Noted Apr. 10.

N. Y., Albion—Community—Supervs. Albion, Barre, Gaines and Carlton Twps. plan to build soldiers and sailors memorial community here. About $100,000. Address A. Ronick, Albion, chn. supervs. bldg. com.

N. Y., Batavia—Church—St. Anthony's congregation plans to build new church on present site. About $50,000. Address W. C. Kirby, pastor.

N. Y., Groton—High School and Gymnasium—Bd. Educ. soon receives bids building 2-story, 61 x 144 ft. brick and tile, with annex for gymnasium. About $125,000. C. W. Clark, Cortland, archt.

N. Y., Hamlin—School—Bd. Educ. plans to build 2-story, brick. About $60,000. Address H. T. Newman, clk.

N. Y., Newark—Cottage— S. F. S. Armstrong, pres. bd. trustees, State Custodial Asylum for Feeble Minded Women, rejected bids received May 8, building cottage here. L. F. Pilcher, Capitol, Albany, state archt. Noted Apr. 17.

N. Y., New York—Office—J. Cullman, 161 Front St., soon lets contract altering 7-story, brick and steel, at 135 Front St. About $60,000. Dodge & Morrison, 135 Front St., archts. and engrs.

N. Y., Watertown—School—City plans election to vote on $300,000 bonds to build school on Cooper St. Address E. W. Sayles, city engr.

N. Y., Yorkville—School—Bd. Educ. soon receives bids building new school. About $70,000. Address F. Butterworth, chn.

N. J. Camden—Bank—P. Merz, archt., Pennsylvania Bldg., Phila., soon receives bids building, 1 and 3-story, 65 x 75 ft., rein.-con., for Bway. Trust Co., 1009 Bway. About $200,000.

N. J., Jersey City—Office and Store—Arlington Co. plans to build brick, stone and concrete foundation, on Boulevard and Bergen Ave. About $70,000. A. Davis, 10 Newark Ave., archt. D. Max, 341 Forest St., interested.

Pa., Danville—Hospital—E. Geisinger, 7th St., having plans prepared by F. G. Nelson, archt., Connell Bldg., Scranton, for 3 story, 40 x 42 ft., rein.-con., concrete foundation. About $70,000.

Pa., Gouldsboro—Church—D. J. Kane, Moscow, having plans prepared by J. J. Howley, archt., Traders Bank Bldg., Scranton, for 1½ story, 22 x 55 ft. timber, concrete and stone foundation here. About $52,000.

Pa., Morrisville—High School—School Bd. plans to build high school. About $50,000. T. B. Stockham, Pennsylvania Ave., pres. Architect not selected.

Pa., Parsons—School—Boro. plans to build 3-story, 40 x 160 ft. rein.-con., steel and brick, concrete and rock foundation, on Ash St. About $60,000. Architect not selected.

Pa., Phila.—Store—I. Press & Sons, 8th and Chestnut Sts., plan to alter 3-story 50 x 100 ft. stone, iron and marble. About $75,000. F. N. Griesher, Lafayette Bldg., archt.

Pa., Pocono Pines—Church—P. J. Bowen, Mt. Pocono, having plans prepared by J. J. Howley, archt., Traders Bank Bldg., Scranton, for 1½ story, 36 x 65 ft., concrete, brick and stone, concrete foundation. About $50,000.

Pa., Scranton—Office—M. J. Murray Estate, Maur Bldg., having plans prepared by J. J. Howley, archt., Traders Bank Bldg., for 5 story, 30 x 40 ft., brick, stone, and concrete, concrete flooring, concrete foundation, on Monroe Ave. About $50,000.

Pa., Summithill—School—Boro. having plans prepared by J. J. Howley, archt., Traders Bank Bldg., Scranton, for 2 story, 30 x 40 ft. concrete, stone and brick, concrete foundation, on Wells and Fergo Sts. About $50,000.

Pa., Throop—Schools—Boro plans to build two 2 story, 28 x 35 ft. brick, stone foundation, on 7th St. About $60,000. J. J. Howley, Traders Bank Bldg., Scranton, archt.

Pa., Vandling—High School—Boro. having plans prepared by J. J. Howley, archt., Traders Bank Bldg., Scranton, for 2 story, 30 x 30 ft. brick, stone, concrete and steel, concrete foundation. About $50,000.

Md., Baltimore—Lunch Room—G. W. Hyde, 225 East Baltimore St., soon receives bids altering and building concrete and brick addition to lunch room at 206 West Fayette St. through to 106 Park Ave. About $50,000. C. M. Anderson, 324 North Charles St., archt.

Md., Baltimore—School—St. Mary's Industrial School, Wilkens Ave., having plans prepared by H. I. Kavanaugh, archt., 913 North Calvert St., for two 3 story, 63 x 131 ft., rein.-con. and brick dormitories and class room, concrete foundation, on Wilkens Ave. About $700,000. O. B. Corrigan, Gilmer and Baker Sts., chn. bldg. com. Noted May 15.

W. Va., Logan—Jail—Comrs. Logan Co. plan to build new jail. About $100,000. Architect not selected.

S. C., Charleston—School—City plans to build 3-story on St. Phillips St. About $50,000. Benson & Borbal, 26 Broad St., archts.

S. C., Greer—High School—Bd. of city School Comrs. plans to build high school. About $75,000. Architect not selected.

O., Cleveland—Commercial—Avenue Co., 4500 Euclid Ave., had plans prepared by Hubbell & Benes, archts., 4500 Euclid Ave., for 2-story, 56 x 96 ft., concrete, steel and brick, at 2024 East 48th St. About $50,000.

O., Cleveland—Commercial—G. D. Koch & Son Co., 10300 Euclid Ave., plans to build concrete, steel and brick, at 10007 Euclid Ave. About $100,000. Architect not selected.

O., Cleveland—Commercial — Raine Co., c/o G. A. Grieble, archt., 517 Sloane Bldg., soon lets contract building 6-story, 33 x 124 ft., concrete, steel and brick, on East 11th St. and Chester Ave.

O., Cleveland—Hospital—Grace Hospital Assn., 2307 West 14th St., plans to build rein.-con., steel and brick addition. About $250,000. Architect not selected.

O., Cleveland—Market—Woodland—East 55th St. Co., c/o I. J. Rothchild, 510 Amer. Trust Bldg., plans to build 3-story, 200 x 273 ft., concrete, steel and brick, on East 55th St. and Woodland Ave. About $500,000. S. H. Weis, 1032 Schofield Bldg., archt.

O., Cleveland — Mercantile — Berkshire Realty Co., 517 Sloane Bldg., soon lets contract building 11-story, 66 x 147 ft. rein.-con., steel and brick, on East 6th St. G. A. Grieble, 517 Sloane Bldg., archt.

O., Cleveland—Office—See "Industrial Works."

Buildings (continued)

O., Cleveland—Theatre—Corlett Realty Co., 12613 Miles Ave., having plans prepared by W. S. Ferguson Co., archts., 1900 Euclid Ave., for 2-story, concrete, steel and brick, at 10705 Miles Ave. About $85,000.

O., Dayton—Club House—Kurt-Te-Si Club Co., Dayton, plans to build 2-story, steel and concrete, concrete foundation, at Island Park. About $50,000. Schenck & Williams, Mutual Home Bldg., archts.

O., Miamisburg—Theatre—Weaver Bros. plan to build 2 story, 60 x 160 ft., brick and timber, brick foundation, on Main St. About $50,000. R. Gebhart, 73 Callahan Bank Bldg., Dayton, archt.

Mich., Detroit—Office—See "Industrial Works."

Mich., Royal Oak—School—City having plans prepared by F. D. Madison, archt., Royal Oak, for 2-story, rein.-con., brick and steel school, concrete foundation, in Dist. No. 6, to include gymnasium and auditorium. About $95,000.

Ill., Chicago—Bank and Office—I. Viehe-Naess, archt., 64 East Van Buren St., receives bids in June, building 3-story, 90 x 160 ft., brick and timber, concrete foundation, on Clark St. and Belmont Ave., for Lake View State Bank, 3160 North Clark St. About $80,000. Noted Apr. 24.

Ill., Chicago—Theatre and Office—E. M. Bertha, 11 South La Salle St., plans to build 4-story, 125 x 175 ft., on 63rd St. and Cottage Grove Ave. About $350,000. Architect not selected.

Wis., Eau Claire—Hotel—City had plans prepared by M. Tullgren & Sons., archts, 425 East Water St., Milwaukee, for 6-story, 90 x 125 ft. hotel. About $350,000.

Wis., Lancaster—City Hall, Auditorium, etc.—City plans to construct brick building. About $100,000. Claude & Starck, Badger Annex, Madison, archts.

Wis., Sheboygan—Theatre—H. R. Prange Co., 731 North 8th St., plans to build 1 story, 60 x 90 ft. brick and rein.-con. on 8th St. About $80,000.

Minn., Minneapolis—Hotel—Curtis Court Hotel Co., 10th St., and 3rd Ave., plans to build 12-story, 52 x 165 ft., rein.-con. and brick, fireproof construction, rock foundation. About $1,000,000. Long, Lamoreaux & Long, 1028 Andrus Bldg., archts.

Minn., Moorhead—Bank—First State Bank receives bids about June 26, building 2 story, 50x150 ft., rein.-con., brick and steel. About $75,000. Braseth & Rosatti, Fargo, N. D., archts.

Minn., Owatonna—High School—Bd. Educ. receives bids about June 15, building 3 story, rein.-con. and brick, rein.-con. flooring, brick foundation. About $350,000. Jacobson & Jacobson, Owatonna, archts.

Minn., St. Paul—School Bd. Educ., 1697 Edgerton Ave., soon lets contract building 2-story, 46 x 80 ft., brick and hollow tile, on Edgerton St., Dist. No. 1. About $50,000. A. S. Devor, 487 Endicott Bldg., archt.

Neb., Lincoln—Hospital—City voted $100,000 bonds which in addition to $100,000 subscribed will be used to build hospital. G. W. Bates, city engr.

Mont., Culbertson—High School—School Dist. plans to build 2-story brick and cement, concrete foundation. About $50,000. McIver, Cohagen & Marshall, 407 Electric Bldg., Billings, archts.

Tex., Dallas—Bank—Federal Reserve Bank, Commerce and Martin Sts., soon lets contract building 5 story, rein.-con. and steel, concrete foundation. About $500,000. L. Talley, cashier. Graham, Anderson, Probst & White, 80 East Jackson Blvd., Chicago, archts. Noted Dec. 12.

Tex., Riverside—School—City voted $50,000 bonds to build school.

Wash., Seattle—Store—J. S. Graham, 2nd and Spring Sts., plans to build 3-story, 83 x 108 ft., brick and terra cotta, concrete foundation, on 2nd and Pine Sts. About $500,000. H. B. Pearce, Arcade Bldg., archt.

Ore., Marshfield—Home—Elks Lodge having plans prepared by Houghtaling & Dougan, archts., Henry Bldg., Portland, for 2-story, 100 x 100 ft. cement, tiling and brick. About $50,000. G. Dix., chn. Noted Mar. 6.

Cal., Bakersfield—School—City election June 5, to vote on $150,000 bonds to build Lincoln School. Architect not selected.

Cal., Fresno—Hotel—J. A. Madden, San Francisco, having sketches made by G. A. Applegarth, archt., Spreckles Bldg., San Francisco, for 12-story hotel here.

SEWAGE TREATMENT WORKS—CLEVELAND, O.

Bids were received by Department of Public Service, May 14th, for constructing westerly sewage treatment works. Contr. No. 25, from (A) Minnick-Gibbons Co., 5309 Prospect Ave.; (B) Masters & Mullen, Electric Bldg., (C) Great Lakes Dredge & Dock Co., Williamson Bldg.; (D) Central Dredging Co., $808,037, $74,950, $733,087; Bates & Rogers, 37 West Van Buren St., $894,045, $72,213, $821,832. The unit bids of the lowest 3 bidders were as follows:

	A	B	C
Removing office building (lump sum)	$1,850.00	$2,030.00	$4,920.00
Removing existing structures (lump sum)	600.00	700.00	600.00
4 test pits	500.00	800.00	800.00
4 tests on piles	200.00	300.00	600.00
12,900 cu.yd. excavation, Class "A"	2.70	3.34	2.50
24,950 cu.yd. excavation, Class "B"	3.00	3.56	3.85
110 cu.yd. foundation cushion	3.50	3.40	3.00
1,700 lin.ft. wood piles, 40 ft. or under	.85	.69	.75
1,730 lin.ft. wood piles, over 40 ft	.95	.71	.70
8,710 lin.ft. concrete piles	2.10	2.24	2.50
450 hours pile driver and crew	60.00	17.00	13.00
16,490 ft. b.m. timber caps, stringers and grillage	90.00	149.00	150.00
6,050 cu.yd. concrete, Class "A"	10.00	10.25	15.00
840 cu.yd. concrete, Class "B"	11.00	13.85	20.00
7,350 cu.yd. concrete, Class "C"	13.00	17.34	25.00
1,010 cu.yd. concrete, Class "D"	20.00	23.94	36.00
810 cu.yd. concrete, Class "E"	30.00	36.11	40.00
9,300 sq.yd. flow partition walls	7.25	6.37	6.50
50 bbl. additional Portland cement	2.60	5.00	3.00
1,500 sq.yd. special surfacing of concrete	1.10	1.75	2.40
1,050 sq.yd. waterproofing for concrete	1.80	1.70	1.90
2,864 lin.ft. expansion joints	1.00	.75	1.10
1,466,500 lb. steel reinforcement	.05	.05	.05
30 tons bell and spigot cast iron pipe	105.00	83.00	77.00
56 tons flanged cast iron pipe	175.00	145.00	127.00
3.43 tons bell and spigot standard specials	200.00	170.00	145.00
7.84 tons flanged standard specials	210.00	200.00	200.00
9.18 tons special specials	300.00	250.00	210.00
675 lin.ft. 2-in. galvanized iron pipe	.75	.55	1.00
2,560 lin.ft. 1½-in. galvanized iron pipe	.65	.45	.70
150 lin.ft. 1-in. (or smaller) galvanized iron pipe	.45	.34	.45
4,100 lin.ft. 1½-in. perforated black iron pipe	.45	.40	.70
4 1-in. gate valves	3.00	2.00	2.00
64 1½-in. gate valves	4.30	3.00	4.00
65 2-in. gate valves	6.00	4.00	5.20
4 3-in. gate valves	9.00	7.25	17.00
2 4-in. gate valves	12.00	9.50	20.00
1 6-in. gate valve	19.00	16.50	27.00
65 8-in. gate valves	35.00	29.00	39.50
32 8-in. quick opening gate valves	50.00	43.00	55.00
28 6-in. shear gates	30.00	30.80	30.00
48 8-in. shear gates	35.00	37.50	35.00
12 6-in. sluice gates	50.00	73.70	83.00
6 adjustable valve boxes and covers	25.00	8.00	28.00
80 lin.ft. 1-rail iron pipe railing	2.50	2.20	1.70
330 lin.ft. 2-rail iron pipe railing	3.00	2.75	2.25
Setting Venturi meter and sluice gate castings (lump sum)	400.00	400.00	500.00
64 adjustable weirs	50.00	100.00	45.00
600 sq.ft. prism lights	2.25	2.50	3.85
90 sq.yd. brick invert	2.80	3.00	4.00
14,650 lb. miscellaneous cast iron work	.12	.145	.13
10 tons miscellaneous wrought iron and steel work	240.00	300.00	275.00
27,680 ft. b.m. miscellaneous wood work	200.00	260.00	195.00
For extra work and materials, if any, the actual cost of such work and materials as determined by the engineer, plus fifteen per cent. of such cost.			
Car house building (lump sum)	1,750.00	1,950.00	1,900.00
Coarse screen building (lump sum)	10,100.00	10,950.00	11,000.00
Laboratory building (lump sum)	6,000.00	6,300.00	6,100.00
Disinfection building (lump sum)	8,800.00	8,670.00	9,000.00
Plumbing and gas fitting (lump sum)	5,500.00	5,900.00	7,500.00
Electrical wiring for light and power (lump sum)	3,200.00	3,000.00	4,500.00
Steam heating equipment (lump sum)	3,500.00	3,600.00	5,500.00
Pumping equipment (lump sum)	3,850.00	3,600.00	3,500.00
Industrial equipment (lump sum)	1,600.00	1,970.00	1,400.00
Drainage (lump sum)	5,000.00	5,000.00	2,500.00
Roadways (lump sum)	14,000.00	7,250.00	14,550.00
175 cu.yd. gravel walks	9.00	6.00	20.00
380 lin.ft. fencing	1.00	1.25	1.25
1,400 cu.yd. loam	4.00	3.00	3.60
1,300 sq.yd. sodding	.75	.40	.30
2.5 acres seeding	235.00	125.00	660.00
3 fire hydrants	50.00	100.00	110.00
Extended totals, items 1 to 55	$640,926	$678,001	$798,456
Extended totals, items 55 to 71	72,568	65,048	78,835
Extended grand totals, excluding items 55 to 71	568,359	612,955	719,621

Cal., Tulare—Hotel—Tulare Hotel Assn. having plans prepared by E. J. Kump, archt., 227 Rowell Bldg., Fresno, for hotel on Kern and L Sts. About $125,000.

Cal., Whittier—Theatre—H. J. Siler et al, c/o Gale Theatre, plan to build theatre. About $65,000.

Cal., Woodland—Hospital—Comrs. Yolo Co. having plans prepared by W. Weeks, archt., 75 Post St., San Francisco, for rein.-con. group of hospital buildings, to include administration, ward and nurses' buildings and superintendents' houses, etc. About $150,000.

Que., St. Anne Des Monts—Church—Roman Catholic congregation having plans prepared by T. Raymond, archt., 43 Caron St., Quebec, for steel, concrete and stone. About $82,000.

Que., St. Anne des Monts—School—Roman Catholic School Bd. soon receives bids building brick and steel. About $60,000. L. Lauesque, secy.

Que., St. Robert—School Bd. soon receives bids building 3 story, concrete, steel and brick school. About $72,000. I. R. Paquin, secy.

Ont., Duncas—High School—Bd. Educ. plans to build 2 story. About $60,000. J. S. Fry, clk. Architect not selected.

Ont., Ingersoll—School—School Bd. having plans prepared by W. J. Murray, archt., Dominion Savings Bldg., for brick school. About $50,000.

Ont., Midland—School—C. A. Wilson, secy. school bd., soon lets contract building steel, concrete and brick school on 6th St. About $70,000. J. Wilson, Hurontario St., Collingwood, archt.

Ont., Ottawa—Lodge—Millson & Burgess, archts., 209 Sparks St., soon let contract for lodge building for Knights of Columbus, 1121 Wellington St. About $60,000.

Ont., Toronto—Hospital—Bd. Control and Provincial Government, having estimates made by F. R. Heakes, archt., Parliament Bldg., for hospital for insane. About $750,000. W. McQueen, secy.

BIDS DESIRED

N. J., Newark—School—Until June 17, by Bd. Educ., building Seymour Vocational School on Sussex Ave. between 1st and 2nd Sts. Bids will be received for general construction work and for 1 or more of sub-

Buildings (continued)

divisions of engineering equipment, namely, heating, ventilating and power, engines and generators, electric work, plumbing, and vacuum cleaner. J. H. and W. C. Ely, Firemen's Bldg., archts.

N. J., Union Hill—School—Until June 17, by H. Lugosch, archt. and engr., 21 Bergenline Ave., for 3-story, 105 x 192 ft., brick and steel, brick foundation, on Hudson Ave., between 1st and 2nd Sts., for Bd. Educ. About $200,000. Noted Mar. 13.

Pa., Mckees Rocks—Church—St. Marys congregation, receiving bids building 1 story, 45 x 96 ft. brick, concrete and brick foundation. J. H. Philips, Fulton Bldg., Pittsburgh, archt. Noted Dec. 26.

Pa., Pittsburgh—E. B. Lee, archt., Chamber of Commerce Bldg., receiving bids constructing 4 story, 81 x 120 ft. steel and brick building, concrete foundation, on Centre Ave. and Francis St., for Y. M. C. A. About $100,000. Noted Apr. 17.

Md., Frostburg—School—Until June 3, by Bd. Educ. Alleghany Co., Cumberland, building 2-story, brick addition and altering Beall High School, here. C. M. Anderson, 324 Charles St., Baltimore, archt.

W. Va., Huntington—School—Until July 2, by State Bd. Control, Charleston, building 2 story, 86 x 156 ft. brick, rein.-con. and steel, physical education building, at Marshall College, here; advertised in this issue.

Ky., Ashland—Church—Until June 10, by Ritter & Shay, archts., North Amer. Bldg., Phila., building 2-story, 100 x 142 ft. brick and stone. About $100,000. Noted Dec. 12.

Mich., Royal Oak—School—Until May 31, by C. A. Dunton, pres. Bd. Educ., Peter Smith Bldg., Detroit, building 2-story, 26 x 84 with 29 x 58 ft. wing., rein.-con. and brick, fireproof construction, rein..con. flooring, concrete foundation, on Berkley Ave., here. Van Leyen, Schilling & Keough, 1115 Union Trust Bldg., Detroit, archts. and engrs.

Kan., Wichita—School—Until June 9, by J. L. Leland, secy. bd. educ., building 3-story, 91 x 185 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on 3rd and Hydraulic Sts. About $160,000. L. Schmidt, 121 North Market St., archt.

Neb., Omaha—Store—Until June 2, by J. Latenser & Sons, archts., 632 Bee Bldg., building 6 story 120 x 132 ft. brick and rein.-con., cement flooring, concrete foundation on 11th and Dodge Sts., for E. L. Means, Orleans. About $150,000.

Wash., Spokane — Hospital — Cutter & Blume, archts., Sherwood Bldg., receiving bids building 6-story, 46 x 200 ft., rein.-con. addition to Deaconess Hospital, 715 4th St. About $100,000.

Cal., Los Angeles—School—Until June 11, by Bd. Educ., building 2-story, 132 x 220 ft. brick and concrete, concrete foundation, on 7th St. About $90,000. Allison & Allison, 1405 Hibernian Bldg., archts. Noted Mar. 27.

Ont., London—School—Until June 1, by Watt & Blackwell, archts., Bank of Toronto Bldg., for 2-story, 150 x 250 ft. rein.-con. medical school, concrete foundation, on Ottaway Ave., for Western University. About $300,000. Noted Jan. 9.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., Meriden** — Parish — Evangelical Lutheran Emanuel Church Society let contract building 2-story, 44 x 90 ft., brick and concrete, rein.-con. flooring, concrete foundation, on Hanover and Cook Sts., to H. Wales Lines Co., 134 State St. About $60,000.

★**Conn., Meriden**—Store and Office—E. Derecktor, 39 Crown St., will build 3-story, 40 x 75 ft. brick and timber, rein.-con. flooring and concrete foundation, on West Main St. About $50,000. Work will be done by day labor. Noted Mar. 6.

★**Conn., Torrington** — Dormitory—Charlotte Hungerford Memorial Hospital, Litchfield Rd., let contract building 2-story, 40 x 75 ft., brick and steel, rein.-con. flooring, concrete foundation, to Torrington Bldg. Co., 197 Water St. About $50,000. Noted May 1.

★**Conn., Waterbury**—School—Bd. Educ. let contract building 2-story, brick and concrete addition to Croft St. School, rein.-con. flooring, concrete foundation, to O. La Croix, 95 Bank St. About $141,000. Noted May 15.

★**N. Y., Binghamton** — Theatre — Symphony Theatre Co., 109 Chenango St., let contract building fireproof rein.-con. theatre on Chenango St. (2000 seating capacity), to A. E. Badgely, Stone St.

★**N. J., Jersey City**—Hospital—City Comrs. let contract building steel and brick alterations and additions to hospital, brick foundation, on Baldwin Ave. and Montgomery St., to W. H. and F. W. Cane, 233 Bway., New York City. About $900,000.

Md., Baltimore—Bank—Maryland Trust Co., Calvert and Redwood Sts., received bids altering entire 1st floor of 50 x 200 ft., concrete and steel bank, on Calvert and Redwood Sts., also installing steel vault, from C. L. Stockhausen, Gay and Water Sts.; Consolidated Eng. Co., 243 Calvert Bldg.; Frainie Bros. & Haigley, 18 Clay St. About $50,000.

★**Md., Homewood** (Baltimore P. O.)—Laboratory—Trustees Johns Hopkins University let contract building 1 story, 50 x 150 ft., rein.-con. and brick, concrete and brick foundation, on Charles St. Ave., to Frainie Bros. & Haigley, 18 Clay St., Baltimore. About $55,000. Noted May 15.

★**Md., Texas**—Almshouse—Comrs. Baltimore Co., Towson, let contract building 2½-story, 44 x 90 ft., stone and brick, rein.-con. flooring, to Hicks, Tase & Norris, 106 West Madison St., Baltimore. About $85,000. Noted May 8.

Md., Tracys Landing—School—Bd. Educ. Anne Arundel Co., Annapolis, received bids building 2-story, 75 x 130 ft., brick and concrete, brick foundation, here, from J. Waters Bldg. Co., 23 East Center St.; C. W. Carlston, Annapolis; Home Cement Co., 2303 Maryland Ave., Baltimore; E. G. Turner, 15 East Fayette St., Baltimore. About $60,000. Noted May 22.

★**D. C., Washington**—Bank—Liberty Savings Bank, 1410 New York Ave., N. W., let contract building 1 story, 25 x 139 ft., brick, steel and stone, brick foundation, on 15th and Eye Sts., to S. J. Prescott Co., 814 13th St., N. W. About $100,000. Noted May 8.

★**Va., Charlottesville**—Bank — First Nat. Bank of Charlottesville let contract building 8-story, 56 x 100 ft., steel, brick and stone, rein.-con. flooring, to Boyle-Robertson Constr. Co., Evans Bldg., Wash., D. C. About $250,000. Noted Mar. 6.

★**Fla., Jacksonville** — Bank — Atlantic Natl. Bank let contract altering and building 50 x 100 ft. steel and brick addition, brick foundation. About $100,000, to E. D. Fitchner, Jacksonville.

★**Miss., Charleston**—School—Town let contract building school, to R. H. Byrd & Co., 208½ North 21st St. About $75,000. Noted Apr. 10.

★**Ky., Scottsville** — Hotel — Scottsville Hotel Co. let contract building 4 story, 86 x 110 ft. brick, to MacDonald Constr. Co., 428 Odd Fellows Bldg., St. Louis, Mo. About $60,000.

★**O., Cleveland**—Office—Fishel & Marks, 3013 East 55th St., let contract building 3-story, 37 x 60 ft., concrete, steel and brick, on East 55th St. and Krakow Ave., to H. W. Fahner, 14000 Woolworth Rd. About $50,000.

★**O., Dayton**—Salesroom—F. B. Heathman Co., 220 West 3rd St., let contract building 2 story, rein.-con. and brick rein.-con. flooring, concrete foundation, on West 2nd St, to Blanchard Bldg. Co., Chapel Rd. About $65,000. Noted May 8.

★**O., Ironton**—Theater and Store—H. A. Marting let contract building 4-story, 66 x 133 ft., steel and concrete, concrete flooring, on Main St., to Taylor & Lynn, 767 Fountain Sq., Zanesville. About $150,000. Noted May 1.

★**O., Kent**—Hotel—Kent Hotel Co. let contract building 3-story, rein.-con., steel and brick, to Crowell-Lundoff Little Co., 5716 Euclid Ave., Cleveland. About $150,000. Noted May 8.

★**Mich., Detroit** — School—St. Theresa congregation, c/o Van Leyden, Schilling & Keough, archts., 1121 Union Trust Bldg., let contract building 2-story, 70 x 180 ft., rein.-con. and brick, concrete foundation, to J. Finn & Co., 234 Fort St., E. About $130,000.

Mich., Flint—Hotel—Citizens Hotel Co., Ellicott Sq., Buffalo, N. Y., received bids building Durand Hotel here, 7-story, 100 x 200 ft., rein.-con. and steel, concrete foundation, from Hegemann-Harris Co., 33 West 42nd St., New York City, $699,900; Realty Constr. Co., 11th and Orange Sts., Wilmington, Del., $725,000; Duboise Constr. Co., Flint, $743,000. Noted Apr. 17.

★**Ill., Chicago**—Theatre and Store—A. E. Whitbeck, c/o W. W. Ahlschlager, archt., 111 West Washington St., let masonry contract for 3 story, 125 x 150 ft. brick and timber, rein.-con. flooring, concrete foundation, on 63rd and Union Sts., to A. and E. Anderson, 19 South La Salle St. About $700,000. Noted Apr. 17.

★**Wis., Eau Claire**—Church—First Norwegian Lutheran congregation let contract building 1-story, 78 x 130 ft. brick and steel, rein.-con. flooring, to Hoeppner Bartlett Co., 414 Grand Ave., E. About $[illegible].

★**Wis., Plain**—Church and School—St. Luke's congregation let contract building church, school, rectory and sisters' residence, to Wisconsin Constr. Co., Physics Bldg., University Ave. and Charter St., Madison, $60,464. Noted Sept. 12.

★**Wis., Sheboygan**—Church—First Congregational Church let contract wrecking old church and rebuilding 3-story, 50 x 110 ft., rein.-con. and brick, brick foundation, on 7th St., to W. Weeks, 730 Ontario Ave. Cost between $50,000 and $60,000.

★**Minn., Duluth**—School—Bd. Educ. let contract building 3-story, 54 x 64 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on East 3rd St., to H. Fawcett, 400 Amer. Exch., $53,397. Noted May 1.

★**Minn., Hawley**—High School—Bd. Educ. let contract building 2-story, 67x118 ft., fireproof, to Bracker Constr. Co., 638 Builders' Exch., Minneapolis. About $50,000. Noted Apr. 24.

★**Minn., Minneapolis**—Cathedral—Scottish Rite Cathedral Assn., 1015 Franklin Ave., W., will build 38x92x120 ft., rein.-con. brick and stone addition on Dupont and Franklin Aves. About $60,000. Work will be done by day labor.

★**Minn., Round Lake**—School—Bd. Educ. let general contract building brick and tile, concrete foundation, to J. B. Nelson Constr. Co., Mankato. About $50,000. Noted May 8th.

★**Minn., Winnebago**—High School—Bd. Educ. let general contract building 2-story, 107 x 112 ft., rein.-con. and brick, to Bracker Constr. Co., Builders' Exch., Minneapolis. About $90,000.

★**Okla., Chickasha**—Dormitory—State Bd. of Pub. Affairs, Oklahoma, let contract building dormitory, etc., at Oklahoma College for Women, here, to Kreipke-Schafer Constr. Co., El Reno, $142,898.

★**Cal., Santa Cruz**—Theatre—F. D. Hihn, Insurance Merchants Exch. Bldg., San Francisco, let contract building rein.-con. theatre to seat 1200, to C. W. Heyer, Jr., Dolziel Bldg., Oakland. About $100,000, cost plus percentage basis. Noted May 1.

★**Ont., Brantford**—School—School Bd. let contract building 2-story, brick, to P. H. Second & Sons, Ltd., 133 Nelson St. About $150,000. Noted Apr. 3.

★**Ont., Ottawa** — Schools — Dept. Educ., Toronto, let contract remodeling 2 schools here, to Taylor & Lacky, 93 Powell Ave. About $70,000. Noted Apr. 17.

Federal Government Work

PROPOSED WORK

Mass., Quincy—School—U. S. Housing Comn., 613 G St., N. W., Wash., D. C., plans to build 2-story, concrete and brick, on North St. About $150,000.

N. J., Lake Denmark—Magazine Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to complete buildings Nos. 3 and 4, here; Spec. 3911. About $18,500.

Pa., Phila—Dredging—U. S. Engr. Office, 1321 Walnut St., soon receives bids dredging Schuylkill River to depth of 30 ft. About $900,000 available for work.

D. C., Wash.—Reflecting Basin—C. Ridley, Dept. Pub. Wks. and Grounds, 1729 New York Ave., N. W., plans to build on Mall between Lincoln Memorial and 17th St., N. W. About $200,000.

Va., Hampton Roads—Buildings—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build industrial buildings at submarine base, here; Spec. 3909. About $325,000.

Va., Quantico—Wharf—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here; Spec. 3910.

S. C., Charleston — Building — Bureau Yards and Docks, Navy Dept., Wash., D. C., plans to build amusement building, here; Spec. 3908. About $37,000.

Federal Government Work (Continued)

Tex., Mt. Pleasant—Post Office—J. A. Wetmore, act. superv. archt., treas. dept., Wash., D. C., rejected bids received May 8 building, here. Noted May 15.

Cal., California City—Power Plant—Bureau Yards & Docks, Navy Dept., Wash., D. C., having plans prepared for power plant at Navy Coaling Yard, here. About $20,000.

Cuba, Havana—Docks, Marine Railways, Storehouses, etc.—War Dept., Republic of Cuba, having plans prepared by Monks & Johnson, engrs., 99 Chauncey St., Boston, Mass., for docks, marine railways, storehouses, machine shops, foundry, barracks, etc., in Triscornia, Havana Harbor.

BIDS DESIRED

Me., Portland—Dredging—Until June 24, by U. S. Engr. Office, Portland, dredging Georges River (Thomaston Harbor) and Tenants Harbor; advertised in this issue.

N. Y., Ft. Slocum—Boilers—Until May 31, at Office of Quartermaster, Recruit Depot, furnishing material for retubing 5 steam heating boilers.

N. Y., New York—Dredging—Until June 23, by U. S. Engr. Office, 39 Whithall St., dredging Hackensack River, N. J., advertised in this issue.

Pa., Ft. Mifflin—T N T Plant—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building here; Spec. 3866. About $150,000; $10 deposit required for plans and spec. Noted Apr. 17.

Md., Baltimore—Rip Rap—Until June 12, by Supt. Lighthouses, Baltimore, furnishing and placing rip rap stone at Craney Island Light Sta., Va.; advertised in this issue.

D. C., Wash.—Water Main and Sewer System—Until June 9, by Suburban Sanitary Comn., 611 F St., N. W., building water mains and sewers in Hyattsville Sewer and Water Dist., involving 6500 lin. ft. 6 and 8-in. c.i. water mains, 7200 lin.ft. 6, 8 and 10-in. vitr. sewer pipe, etc. W. T. S. Curtis, chn.; advertised in this issue.

Va., Hampton Roads—Electric Distributing System—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing at submarine base, here; Spec. 3901. About $60,000; $10 deposit required for plans and spec. Noted May 22.

W. Va., Charleston—Boilers and Superheaters—Until June 11, by Bureau Yards & Docks, Navy Dept., Wash., D. C., installing, here; Spec. 3707. About $45,000; $10 deposit required for plans and spec. Noted Dec. 5.

W. Va., Wheeling—Steel, Forgings, Castings, etc.—Until June 23, by U. S. Engr. Office, furnishing and delivering structural steel, forgings, castings, etc. for Locks Nos. 1 and 4, Little Kanawha River; advertised in this issue.

S. C., Clinton—Post Office—Until June 18, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building, here, advertised in this issue.

Ala., Florence—Air Compressors—Until June 27, by U. S. Engr. Office, Florence, furnishing air compressors; advertised in this issue.

La., New Orleans—Bulkhead—Until June 25, by U. S. Engr. Office, Customhouse, building bulkhead at Southwest Pass, Mississippi River; advertised in this issue.

La., New Orleans—Coal—Until June 27, by U. S. Engr. Office, Customhouse, furnishing and delivering coal for U. S. plant; advertised in this issue.

La., New Orleans—Piles and Lumber—Until June 25, by U. S. Engr. Office Customhouse, furnishing and delivering piles and lumber on bank or wharves in Southwest Pass, South Pass and Head Passes, Mississippi River; advertised in this issue.

O., Cincinnati—Boiler—Until June 16, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., furnishing and installing 4 water tube boilers, in custom house and post office, here.

Mich., Houghton—Post Office—Until June 27, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., building post office, here.

Ill., Cairo—Boiler—Until June 16, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., furnishing and installing boiler in post office, here.

Ill., Monmouth—Boiler—Until June 9, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., installing boiler, smokestack, steam and water mains, etc., in post office, here.

Tex., Galveston—Jetty Repairs—Until June 18, by U. S. Engr. Office, repairing north jetty, Galveston Harbor.

Colo., Denver—Boilers—Until June 9, by J. A. Wetmore, superv. archt., treas. dept., Wash., D. C., installing 2 boilers in custom house, here.

P. R., Cayey—Radio Buildings—Until June 18, by Bureau Yards & Docks, Navy Dept., Wash., D. C., building operators' quarters and 2 cottages, here; Spec. 3902. About $27,000; $10 deposit required for plans and spec. Noted May 22.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Conn., New London**—Dredging—U. S. Engr. Office, New London, let contract for maintenance dredging in New Haven Harbor, to Hartford & New York Transportation Co., 285 State St., Hartford, $15,400. Noted May 1.

★**N. Y., Governor's Island**—Boilers—Constr. Div., War Dept., let contract installing boilers, here, to Erie City Iron Wks., 915 Equitable Bldg., Baltimore, Md., $33,528.

★**N. Y., Madison**—Boilers—Constr. Div., War Dept., let contract installing boilers at barracks, here, to Erie City Iron Wks., 915 Equitable Bldg., Baltimore, Md., $5708.

★**N. Y., New York**—Dredging—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract dredging at Navy Yard, here, to Morris & Cummings Dredging Co., 17 State St., $.74 per cu.yd. (30 days).

N. J., Lake Denmark—Magazine Storehouses—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids completing 2 magazine storehouses at Naval Ammunition Depot, here, from Speedwell Constr. Co., 22 University Pl., $18,500 (45 days); Faillace Bros., 7 East 42nd St., $19,632 (45 days). Unit price on excav. $2.80 per yd. Both contractors of New York City.

★**Del., Wilmington** — Dredging — U. S. Engr. Office, Old Federal Bldg., let contract dredging Tuckerton Creek, N. J., to Hill Dredging Co., Altantic St. and Somerset Pl., Atlantic City, N. J., $4200. Noted Mar. 6.

D. C., Wash.—Paving—Dist. Comrs., Dist. Bldg., received only bid May 21, paving various streets and avenues, from Cranford Paving Co., Union Trust Bldg., 2½ in. asphalt, 6 in. base with natural pitch lake, $3.25 per sq.yd.; reduced oil asphalt, $3; vitr. block, $3.40; asphalt on 5 in. base, natural pitch lake, $3.05; reduced oil asphalt, $2.80; vitr. block, 5 in. base, $3.20. Noted May 8.

Va., Yorktown—Road—Constr. Div., U. S. Army, received bids May 19, building 2 mi. concrete road between Yorktown and Lee Hall, from:

S. R. Curtis, $38,956 per mi. 12-in iron pipe culvert $2.25 per lin.ft.; 13-in. $2.50; 18-in $3; 20-in. $3.50; 24-in. $4; 30-in. $5; 36-in $6; 4-in. drain tile $.38 per ft.; 12-in. vitr. sewer crock $.95; 15-in. $1.02; 18-in. $1.40; 20-in. $1.68; 24-in. $2.52; concrete laid in wet trench $1.. per cu.yd.; concrete laid under ordinary conditions $16; reinforced steel in place $.08 per lb.; gravel or stone $6 per cu.yd.; lumber $50 per 1000 ft.; grading highway outside line of ditch $200 per acre; additional concrete road $7.38; excav. for open ditches $.03.

McLean Contg. Co., 1412 Fidelity Bldg., Balitmore, Md., $38,965 per mi.; 12-in. culvert $2.50; 14-in. $2.75; 18-in. $3.45; 20-in. $3.75; 24-in. $4.50; 30-in. $5.15; 36-in. $5.75; 4-in. drain tile $.085; 12-in. vitr. sewer crock $1.65; 15-in. $1.75; 18-in. $1.95; 20-in. $2.45; 24-in. $3.25; concrete laid in wet trench $28 per cu.yd.; under ordinary conditions $20; steel $.08 per lb.; gravel or stone $5.50 per cu.yd.; lumber $135 per 1000 ft.; grubbing and cleaning highway outside of ditches, $295 per acre; additional concrete road $8.48; excav. for open ditches $.08.

Hampton Roads Constr. Co., Hampton Roads, Va., $42,000 per mi.; 12-in. culvert $2; 14-in. $2.50; 18-in. $3; 20-in. $3; 24-in. $3; 30-in. $3.50; 36-in. $3.50; 4-in. drain tile $.45; 12-in. vitr. sewer crock $1.50; 15-in. $1.60; 18-in. $1.75; 20-in. $1.90; 24-in. $3.45; concrete laid in wet trench $40; under ordinary conditions $22; reinforced steel $.12 per lb.; gravel or stone $4 per cu.yd.; lumber $75 per 1000 ft.; grubbing and cleaning $500 per acre; additional concrete road, $7.75; ditch $.09 per cu.ft.

W. Va., South Charleston—Cranes—Bureau Yards & Docks., Navy Dept., Wash., D. C., received bids May 20, installing 22 electric traveling cranes in open hearth, forge, furnace and machine shops and heat treatment building, here, (1) work complete from

Niles-Bement-Pond Co., 111 Bway., New New York City, 15 cranes—(5)—(10) inclusive and (15) (24) inclusive as indicated in specification, (22) is not included. $655,100.—(300 days). (6), (7), (8), (11) and (12)—cranes—lump sum bid.

Camden Iron Wks., Line St. and Coopers Creek, Camden, N. J., (11), $84,600 (183 days); (12) $84,600, (183 days).

Whiting Fdry. Equipment Co., Harvey, Ill., (5) $20,540, (180 days), alternate, $18,540 (180 days); (6) $20,400, each, (150 days); (12) $33,790, each, (225 days), alternate $33,470, (225 days).

Alliance Machine Co., Alliance, O., (1) $1,173,600, (180 days); (2) $94,900, (180 days); (3) $79,540, (180 days); (4) $61,345, (180 days); (5) $23,085, (150 days); (6) $18,540, each; (7) $75,445, (180 days); (8) $47,150, each, (180 days); (9) $113,900, each, (180 days); (10) $32,090, (180 days); (11) $69,370 each, (180 days); (12) $35,470, each, (180 days); (13) $64,250 (180 days).

Morgan Eng. Co., East Bway., Alliance, O., (1) $1,040,950, (262 days), deduct $17,555; (2) $81,250, (262 days), deduct $1375; (3) $75,500 (247 days), deduct $1040; (4) $58,675, (162 days), deduct $740; (5) $17,150, (149 days), deduct $480; (6) $17,950, each, (87 days), deduct $340; (7) $74,350, each (236 days); (8) $38,150 each (216 days), deduct $760, each; (9) $78,850, each (246 days), deduct $380 each; (10) $29,250, (223 days), deduct $760; (11) $66,350, each, (236 days), deduct $665, each; (12) $33,500, each, (178-216 days), deduct $760, each; (13) $53,250, (237 days), deduct $1550, alternate (1) $1,081,500, (262 days); alternate (2), $1,088,350, (262 days); (9) alternate (1), $99,650, each (246 days); (2) $103,150 each, (246 days).

Milwaukee Electric Crane & Mfg. Co., 60th and Greenfield St., Milwaukee, Wis., (5) $14,500, (90-120 days); (6) $25,200, (90-120 days); (8) $86,110, (120-180 days); (12) $208,800, (120-180 days).

Chesapeake Iron Wks., Westport, Md., (6) $24,860, each, (250-280 days); (12) $43,350, each, (200-300 days).

Cleveland Crane & Eng. Co., Wickliffe, O., (1) $1,074,670, (300 days); (2) $88,810 (161 days); (3) $86,550, (140 days); (4) $6750, (120 days); (5) $15,030, (110 days); (6) $15,210 each; (7) $80,640, each, (200 days); (8) $40,850, each, (280 days); (9) $74,725, each, (242 days); (10) $33,580, (165 days); (11) $68,160 each, (130 days); (12) $36,210, each, (270 days); (13) $45,420, (295 days), alternate (1) $1,118,880, (300 days); (2) $1,114,340, (300 days); alternate to (9) (1), $98,830, each, (242 days); (2) $96,560 (242 days).

Manning, Maxwell & Moore, 119 West 40th St., New York City, (5) $12,736, (80 days); (6) $24,816, (80 days); (8) $64,732, (110 days); (10) $23,646, (95 days); (11) $73,249, (110 days); (12) $169,505, (150 days).

Pawling & Harnischfeger, 38th St. and National Ave., Milwaukee, Wis., (5) $17,650, each, (240 days); (6) same; (7) $80,600, each; (8) $53,225, each; (10) $32,650, each; (11) $63,200; (12) $39,700, each.

V. R. Browning, 17701 Lake Shore Blvd., Cleveland, O., (6) crane No. 5 $12,984, (180 days); crane No. 6, $12,984, (200 days); (12) crane No. 18, $30,622, (180 days), crane No. 19, $29,622; crane No. 20, $29,622 (220 days); crane No. 21, $29,622 (235 days); crane No. 23, $29,622, (280 days); crane No. 24, $29,622, (280 days). Noted May 8.

★**Ga., Augusta**—Boiler—Constr. Div., War Dept., let contract installing boiler in arsenal, here, to Erie City Iron Wks., 915 Equitable Bldg., Baltimore, Md., $2854.

★**Ga., Camp Benning**—Boilers—Constr. Div., War Dept., let contract installing boilers, here, to Erie City Iron Wks., 915 Equitable Bldg., Baltimore, Md., $8562.

★**Fla., Pensacola**—Conduit System—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract building underground conduit system and transformer house, at Naval Air Sta., here, to G. E. Eng. Co., Leight and Varick St., New York City, $93,468 (150 days). Noted May 15.

Federal Government Work (Continued)

★**Minn., Duluth**—Dredging—U. S. Engr. Office, Duluth, let contract dredging Duluth-Superior Harbor, Minn., and Wis., involving, 2,083,333 cu.yd., to Duluth-Superior Dredging Co., Duluth, $.144 cu.yd. dipper work and $.155 cu.yd. hydraulic. Noted Apr. 24.

★**Minn., Duluth**—Rip Rap—U. S. Engr. Office, Duluth, let contract removing old timber from breakwater and furnishing and placing stone rip rap along lake face and over top of west breakwater, upper entrance, Keweenaw Waterway, Mich., to T. L. Durocher, Detour, $9.50 lin.yd. timber and $5.05 ton for stone rip rap. Noted May 1.

Mont., Kalispell—Road Work—Bureau Pub. Rds., Missoula, received bids May 15, building 29.5 mi. North Fork of Flathead Natl. Forest Rd., 10 ft. wide, from Carlson Norman & Co., Spokane, Wash., $124,003; Rich & Markhus, Prosser, Wash., $139,437. Noted May 8.

★**Tex., Ft. Sam Houston**—Boilers—Constr. Div., War Dept., let contract installing boilers, here, to Erie City Iron Wks., 915 Equitable Bldg., Baltimore, Md., $33,528.

Tex., Honey Grove—Post Office—J. A. Wetmore, superv. archt., treas. dept., Wash. D. C., received bids May 20, building post office, here, from Cooper & Lund, Inc., Newark, N. J., $42,230; Henry & Hatfield Constr. Co., 120 South Meridan St., Indianapolis, Ind., $44,965. Noted May 15.

Tex., North Ft. Worth—Helium Production Plant—Bureau Yards and Docks, Navy Dept., Wash., D. C., received bids May 21, building, here (former contract cancelled), (1) work complete, from Central Contg. Co., 585 Beatty Bldg., Houston Tex., (1) $448,000, (220 days); (2) $20,000; (3) $5000; (5) $3000; (6) $27,000; (7) $4500; (8) $8000; (16) add $600; (17) $1; (18) $4.

Federal Constr. Co., Wash., D. C., (1) $467,500; (2) $25,000; (3) $5000; (5) $5000; (6) $33,000; (7) $6500; (8) $11,000; (16) add $1000; (17) $3.50; (18) $5.

A. C. Moses Constr. Co., 915 New York Ave., N. W., Wash. D. C., (1) $485,000, (210 days); (2) deduct $28,500; (3) deduct $8000; (5) deduct $5500; (6) deduct $31,000; (7) deduct $3438; (8) deduct $10,382; (16) deduct $10,382; (17) $2.67; (18) $1.58.

(4) is eliminated under addendum No. 1. (11) is also eliminated. Noted Apr. 24.

Miscellaneous

PROPOSED WORK

Coal Pocket—Chicopee Falls, Mass.—A. L. DeGray, 7 Church St., plans to build new concrete coal pocket. About $11,000.

Coal Pocket—Chicopee Falls, Mass.—F. H. Howard, 62 Market St., soon receives bids building new concrete coal pocket. About $10,000.

Coal Yard—Syracuse, N. Y.—Gere Coal Co., 305 South Waren St., purchased site on 900 Block Canal St., and plans to build coal handling yard, to include 500-600 ft. railroad trackage, concrete trestle, coal and coke bins. Cost between $50,000 and $60,000.

Retaining Wall—Frankford (Philadelphia P. O.) **Pa.**—Chevra Bikur Cholem Assn., Bridge St., plans to build rein.-con. retaining wall, 500 ft. long, 10 ft. high. About $10,000. F. N. Greisler, Lafayette Bldg. engr.

Platform—Detroit, Mich.—See "Industrial Works."

Memorial Park, etc.—Drayton, N. D.—City purchased 36-acre tract for memorial park, to include baseball grounds, swimming pool, etc. About $7000 now available.

Telephone Line—Grenora, N. D.—Williams Mutual Telephone Co. plans to build 22 mi. extension between Grenora and Zahl. G. E. Johnson, genl. mgr.

BIDS DESIRED

Pier, etc.—Chaumont, N. Y.—Until June 18, by W. S. Carpenter, secy to Conservation Comn., building wood cribbing and concrete landing and recreation pier at Sony Point. Noted Mar. 6.

Paving Materials—New York, N. Y.—Until June 6, by F. L. Dowling, pres. Manhattan Boro., furnishing and delivering 20,000 bags Portland cement; 2000 cu.yd. mixed aggregate; 5800 cu.yd. binder stone; 100,000 sewer brick; 3800 tons limestone dust; 200,000 wood paving blocks; 600,000 gal. refined asphalt.

Fireproofing—Trenton, N. J.—Until June 2, by Dept. Architecture, 142 West State St., fireproofing dumbwaiter shafts and stairways, at State Hospital, here; advertised in this issue.

Road Material—Swarthmore, Pa.—Until June 5, by Boro., for 3270 sq.yd. tarviabound macadam, 2800 lin.ft. curbs and brick gutters, 2100 sq.yd. waterbound macadam, and 1800 lin.ft. stone curbs and brick gutters. F. M. Varrell, secy.; advertised in this issue.

Retaining Wall — Wilkes-Barre, Pa. — Until June 2, by city, building concrete retaining wall, steps and coal houses on Coal St. F. H. Gates, city clk.

Pipe, etc.—Detroit, Mich.—Until June 2, by J. A. Martin, comr. purchases and supplies, Municipal Courts Bldg., furnishing c.i. pipe and specials, cast steel fittings, machining and testing steel fittings, gate valves, manhole castings, hydrants and telephone conduits. Smith, Hinchman & Grylls, Washington Arcade, consult. engrs.

Road Roller—Saginaw, Mich.—Until June 10, by G. Holcomb, comr. pub. wks., furnishing 10-ton road roller; advertised in this issue.

Road Machinery—Two Harbors, Minn.—Until June 5, by I. W. Foote, co. aud., furnishing one 2-ton motor truck with 1½ cu.yd. dump body and power hoist; 1 portable gravel screening plant; 4 dump wagons, with 1½ and 2 cu.yd. capacity, hopper top; one tractor, caterpillar type, from 12-20 horsepower on draw bar.

Valves, etc.—Los Angeles, Cal.—Until June 10, J. P. Vroman, secy. Bd. Pub. Serv. Comn., furnishing valves and fittings for special penstock for power plant No. 2 in San Francisquito Canyon. W. Mulholland, 645 South Olive St., engr.

Wharf—Berthier, Que.—Until June 2, by Dept. Pub. Wks., Ottawa, Ont., improving wharf here. About $18,600.

Breakwater—Ft. William, Ont.—Until June 5, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, building breakwater, as extension to revetment wall and wharves at entrance to Mission Channel.

Cast Iron Pipe—Waterford, Ireland—City receiving bids from American manufacturers, supplying 13,000 lin.yd. 15-in. c.i. water pipes, to stand vertical pressure of column of water 300 ft. T. F. Higgins, The Mall, Waterford, town clk.; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

Paving Blocks—Worcester, Mass.—City received only bid furnishing 600,000 granite paving blocks, from Hildredth Granite Co., 31 State St., Boston.

Sand—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro., received bids furnishing and delivering 6500 cu.yd. sand, from C. A. Myers, foot Stagg St., $12,545; E. W. Fitzpatrick, 128 3rd Ave., $12,610; T. F. Tuohy, 98 Main St., $13,455. Noted May 1.

Stone—Long Island City, N. Y.—M. E. Connolly, pres., Queens Boro., received bids furnishing and delivering 10,000 cu.yd. broken stone, from T. F. Tuohy, 98 Main St., $30,700; N. H. Trap Rock Co., $31,800; Peace Bros., $33,000.

Boiler Breeching—Ogdensburg, N. Y.—State Hospital Comn., Albany, received lowest 3 bids, May 20, for boiler breeching at St. Lawrence Hospital, here, from Mansfield & Savage, 135 Williams St., New York City, $6999; Murtagh & Reddington Co., 26 Pleasant St., Rochester, $9100; Shevlin Eng. Co., New York City, $9745. Noted May 15.

Piles, etc.—St. George, S. I., N. Y.—J. H. Delaney, comr. plant and structures, Municipal Bldg., New York City, received lowest 3 bids May 21, furnishing and delivering piles to St. George Terminal of Staten Island Ferry, from E. R. Mill & Lumber Co., $32,194; Central Timber Co., 115 Bway, New York City, $38,561; J. A. Maloney, 16 Beaver St., New York City, $64,654; hardware, from L. C. Hardy & Co., 114 Liberty St., New York City, $3023; Hanson & York, $3038; H. T. Dakin, $3463. Noted May 15.

Laundry Machinery—Wards Island, N. Y.—State Hospital Comn., Capitol, Albany, received bids May 20, for laundry, machinery and motors, at Manhattan State Hospital here, from J. Livingston, Inc., 70 East 45th St., New York City, $11,950; C. H. Darmstadt, 352 West 43rd St., New York City, $12,947; Jandous Electric Equipment Co., 109 West 31st St., $14,850. Noted May 15.

★**Paving Material—Camden, N. J.**—Com. Streets & Highways, let contracts furnishing following materials for 1929: asphalt, to Atlantic Refining Co., 245 North 30th St., Phila., $12 per ton; crushed stone, to Gen. Crushed Stone Co., North Amer. Bldg., Phila., $2 per ton; pebbles, to Justice Coal & Iron Co., 312 Market St., $1.90 per ton; stone dust, to Camden Lime Co., 319 Federal St., $5.75 per ton; cement, to Justice Coal & Iron Co. and Camden Lime Co., $2.84 per bbl; fuel oil, to Standard Oil Co., 26 Bway., New York City, $0.0539 per gal., slag, to Duquense Slag Co., Commercial Trade Bldg., Phila., $1.95 per ton; bituminous coal, to Swain & Co., Pennsylvania Bldg., Phila., $2.60 per ton; asphalt sand, to Norcross & Edmunds Co., Penn Sq. Bldg., Phila., $0.70 per ton. Noted May 15.

★**Coal Bunker—Newark, N. J.**—Pub. Serv. Ry. Co., 80 Park Pl., let contract building extension to coal bunker, to Linde & Griffith Co., foot of 4th Ave. About $30,000. Work involves pile driving, concrete and excav.

★**Curb Stop and Roadway Valve Boxes—Baltimore, Md.**—City let contract furnishing and delivering (a) 10,000 curb stop boxes, (b) 1000 roadway valve boxes, to Central Fdry. Co., Dundalk (Baltimore P. O.), (a) $1.15 each, (b) $3.35 each. Total cost $14,850.

Cement—Portland, Ore.—State Highway Comn. received bids May 6, furnishing 26,000 bbls. Portland cement f.o.b. Oswego, for Hillsboro-Beaverton Project, from Oregon Portland Cement Co., Wilcox Bldg., at $2.35 per bbl. and H. Cowell Lime & Cement Co., Ry. Exch. Bldg., $3.22 and $3.25 Bids referred to H. Nunn, Salem, state highway engr.

★**Cement—Portland, Ore.**—State Highway Comn. let contracts furnishing 10,000 bbls. Portland cement, f.o.b. Marshfield, for Marshfield-Coquille Project, to H. Cowell Lime & Cement Co., Ry. Exch. Bldg., $3.65 per bbl.; 500 bbls. f.o.b. Arlington, Arlington Project, to Lehigh Portland Cement Co., $3.54; 1600 bbls. f.o.b. Miller Sta., Miller-Sherman Co. Project, to Oregon Portland Cement Co., Wilcox Bldg., $3.43. Price of sacks included in all bids at $.15 each, excepting bids of Oregont Portland Cement Co. and Lehigh Portland Cement Co. figured at $.25 each. All bids offered 5% discount for payment within 10 days.

Road Oil—Fresno, Cal.—Bd. Supervs. Fresno Co. received bids furnishing 100,000 bbls. road oil, from A. F. Gilmore Co., Van Nuys Bldg., $1.51 per bbl. f.o.b. Taft; Union Oil Co., Union Oil Bldg., $1.60 f.o.b. Malta; Standard Oil Co., 1727 North Spring St., $12.75 per ton for E grade asphaltum f.o.b. Seguro, bidders all of Los Angeles. Noted Apr. 10.

★**Pipe—Los Angeles, Cal.**—Bd. Pub. Serv. Comn. let contracts, to U. S. Steel Products Co., 156 Central St., furnishing 20,000 ft. 6 in. Matheson joint welded steel pipe, f.o.b. Pittsburgh, Pa., $0.4816 per ft., Crane Co., 321 East 3rd St., furnishing 5000 ft. 2 in. dipped w. i. black pipe with threads and couplings, f.o.b. Los Angeles, $20.45 per 100 ft.

Road Oil—Los Angeles, Cal.—City received bids furnishing 81% road oil for year beginning June 30, 1919, from A. F. Gilmore Co., Van Nuys Bldg., $2.19 per bbl.; C. C. Harris Oil Co., 701 College St., $12.65 per ton of 2000 lbs.

Shed — Oakland, Cal. — Parr-McCormick Terminal Co., foot of 7th St., received bids building 1-story, 120 x 500 ft., timber transit shed, from A. Olson, Oakland, $65,642; Clinton Constr. Co., 357 Pine St., San Francisco, $58,367 (without paving); Hayes-Oser Co., Call Bldg., San Francisco, $65,837.

★**Dry Dock—San Pedro, Cal.**—Southwestern Dry Dock Co., recently incorporated with $1,000,000 capital stock, will build dry dock near plant Southwestern Shipbuilding Co., here. Work will be done by day labor. I. H. and M. H. Hellman, c/o Hellman Commercial Trust & Savings Bank, Los Angeles, interested.

★**Foundation, etc. — Montreal, Que.** — Dept. Pub. Wks., Ottawa, Ont., let contract for foundation and excavation, for extension to custom house here, to P. Lyall & Sons, Transportation Bldg. About $100,000. Noted Mar. 27 under "Buildings."

★**Sewer Pipe—Sherbrooke, Que.**—City let contracts furnishing sewer pipe, to Codore Sons & Co., and J. S. Mitchell & Co., Wellington St. About $35,000.

★**Wharf—Vercheres, Que.**—Dept. Pub. Wks., Ottawa, let contract rebuilding wharf here, to L. and J. Trudel and N. Trudel, St. Irenee. About $10,000.